

OCTOBER 1951

National Safety News



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ACME PROTECTION EQUIPMENT CO. 1037 W. Lake St., Chicago 12, Ill. Representatives: G. M. Glidden, Robert A. Flood, N. C. Tamandl. Manufacturers—Gas Masks Exclusively.	71-S	190
ADVANCE GLOVE MFG. CO. 901 W. Lafayette Blvd., Detroit 26, Mich. Representatives: Chas. E. Harris, H. Rosenberg, Fred J. Weber. Manufacturers—All Types of Work Gloves, Safety Gloves and Leather Safety Clothing.	4-C	173
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BEST, ALFRED M., CO., INC. 75 Fulton St., New York 7, N. Y. Representatives: Harry Armand, Payson H. Ryan, Frank Matre. Publishers—Safety Maintenance and Production; Best's Safety and Maintenance Directory.	38-S	—
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BRADY, W. H., CO. 16 E. Spring St., Chippewa Falls, Wisc. Representatives: W. H. Brady, Jr., W. J. Tuite, W. E. Schneider. Manufacturers—Self-Sticking Safety Signs, Pipe Markers and Special Markers and Signs.	26-S	198-205
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BUHRKE, R. H., CO. 4701 W. Grand Ave., Chicago 39, Ill. Representatives: Herbert A. Raschke, C. G. Dittman, Harold C. Christiansen, Ray Herod, William S. Sherertz. Manufacturers—Safety Equipment for Construction and Maintenance.	110-111-S	79

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CHICAGO EYE SHIELD CO. 2300 Warren Blvd., Chicago 12, Ill.	72-73 74-S	1 B.C.	DUNN PRODUCTS 1214 W. Madison St., Chicago 7, Ill.	21-S	175
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Representatives: Gerald F. Grace, F. T. Benjamin, M. C. Hendershott, Tom H. Mulry. Manufacturers—Herc-Alloy Sling Chains.			Representatives: Robert L. Shirley, H. D. Noll, C. B. Wahl. Producers—Eagle-Picher Industrial Floor-Dry 285. A heavy duty, anti-skid, light reflecting absorbent for plant safety and maintenance.		
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Representatives: F. Rutledge Davis, F. R. Davis, Jr., S. F. Bliss, J. F. Coonan, John Martin. Manufacturers—Respiratory Protection, Combustible Gas Indicators, General Safety and First Aid Equipment.					

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Representatives: Alvin Lewis, Edward J. Stack, Walter Koch. Manufacturers—Sign Making Equipment, Safety Posters, Displays, Directory Signs.		
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Representatives: John Hunt, James F. Lamson, Blaine Kerr. Manufacturers — Industrial Gloves and Mittens.		
FENDALL CO. 4631 N. Western Ave., Chicago 25, Ill.	33-C	72
Representatives: John N. Liautaud, Philip J. Liautaud. Manufacturers—Head and Eye Protection Equipment.		
FINNELL SYSTEM, INC. 500 East St., Elkhart, Ind.	63-64-S	57
Representatives: James E. Bates, R. M. Harter, Vernon Leonard, Alvin R. Utke, Oliver A. Minard. Manufacturers—Floor Maintenance Machines.		
FRANKLIN RESEARCH CO. 5134 Lancaster Ave., Philadelphia, Pa.	143-S	168
Representatives: Charles B. Masseth, Jr., D. Sim, V. Bushmiller. Manufacturers—Anti-Slip Floor Maintenance Materials.		
GRO-CORD RUBBER CO. 807 N. Jackson St., Lima, Ohio	120-S	52
Representatives: B. H. MacLeod, D. J. Wigglesworth, K. F. Trimble. Manufacturers—Gro-Cord, Raw-Cord and Neo-Cord Soles, Heels and Taps.		
HILD FLOOR MACHINE CO. 740 W. Washington Blvd., Chicago 6, Ill. ...	130-S	70
Representatives: Walter Harper, Charles Myers, Jim Connell. Manufacturers—Floor Cleaning and Maintenance Equipment and Supplies.		
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Representatives: Elliott C. Spratt, William E. Hillyard, J. J. Gafford, Sr. Manufacturers—Floor Treatments, Building Maintenance, Sanitation Products, Equipment and Materials.		
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Representatives: H. H. Wallower, Jr., Frank L. Wamsley. Manufacturers—Rolon Tire Chains.		
HY-TEST DIVN., INTERNATIONAL SHOE CO. 1509 Washington Ave., St. Louis 3, Mo.	95-S	22-23
Representatives: Norman C. Whitsett, Edward B. Lang, James J. Kelley, Fred G. Seymour, Mark Constantine, Frank M. Webb, J. W. Hyde, H. D. Scott. Manufacturers—Hy-Test Anchor Flange Steel Toe Safety Shoes.		

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Representatives: I. W. Millard, Jess A. Brewer, John R. Redenbaugh, D. F. Didier, B. J. Fullan, J. C. Finegan. Manufacturers — Finger Guards, Super-guards, Wovenguards, Handguards, Gloves, Mittens, Arm Protectors, Protective Apparel, Leggings.		
INSTO-GAS CORP. 1977 E. Woodbridge Ave., Detroit 7, Mich. ...	9-S	—
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INTOXIMETER ASSN. 334 Buffalo Ave., Niagara Falls, N. Y.	6-C	—
Representatives: Glenn C. Forrester, Grizel C. Forrester. Manufacturers—Sales and Service of Equipment to Determine Degree of Alcoholic Influence.		
IRON AGE DIVN., H. CHILDS & CO., INC. 813 Penn Ave., Pittsburgh 22, Pa.	50-S	47
Representatives: James H. Childs, Jr., Robert H. Lohr, Charles E. Goffe, Andrew May, Harvey Childs, Jr., D. C. MacNaughton. Manufacturers—Complete Line Leather and Rubber Industrial Safety Footwear for Men and Women.		
JUNKIN SAFETY APPLIANCE CO. 101 S. Floyd St., Louisville 1, Ky.	136-S 186-204-212	
Representative: John I. Junkin. Manufacturers—Junkin Interlocking Barrier Guard; Swinging Die Closure; Electro-Lock Shield and Splint Type Stretcher.		
JUSTRITE MFG. CO. 2061 N. Southport Ave., Chicago 14, Ill.	18-S	64
Representatives: John E. Stark, Jr., Warren Mitchler, Frank O. White. Manufacturers—Safety Cans, Oily Waste Cans, Safety Electric Lanterns, Flashlights and Fire Extinguishers.		
KAREL FIRST AID SUPPLY CO. 4342 Ogden Ave., Chicago 29, Ill.	82-S	—
Representatives: Louis X. Karel, James S. Karel, Fred T. Mukensnabe. Distributors—Industrial Hospital Supplies and Equipment. Drugs, Dressings, Furniture, Instruments.		
KEARNEY, JAMES R., CORP. 4236 Clayton St., St. Louis 10, Mo.	31-S	—
Representatives: L. L. Crump, A. R. Landis, Ralph Mudd. Manufacturers—Line Tools for Linemen in Handling Energized Wires.		
KEYSTONE VIEW CO. Meadville, Pa.	150-S	80
Representatives: Walter Burkhardt, Victor A. Lennon, W. G. Davis. Manufacturers—Original Binocular Visual Screening Tests for Industry.		
KIDDE, WALTER & CO., INC. 675 Main St., Belleville 9, N. J.	109-S	135
Representatives: W. E. Morgan, M. H. Arnold, W. R. Elder, W. A. MacFadden, W. E. Healey. Manufacturers—Fire Protection and Extinguishing Equipment.		

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Representatives: Don Kimball, O. E. Kimball, William Mahon. Manufacturers and Distributors—Goggles, Gloves, Safety Clothing and Other Safety Equipment.		
KLEIN, MATHIAS, & SONS 3200 Belmont Ave., Chicago 18, Ill.	65-66-S	76
Representatives: Mathias A. Klein, Mathias A. Klein, Jr., H. B. Wilson, Jr., W. J. McAmis, B. E. Rogers, A. L. Moore. Manufacturers — Linemen's Tools and Equipment.		
LEGGE, WALTER G. CO., INC. 101 Park Ave., New York 17, N. Y.	36-37-S	65
Representatives: Walter G. Legge, J. Paul Glenn, George A. Arnold, John E. Hennessy, Ray F. Bender, R. F. McConville, John E. McLaughlin, Kenneth Zimmerman, K. Edward Tenny, Chalmers D. Close, Hal C. Frazier, Albert J. Steiner. Manufacturers—Safety Floor Polishes, Conductive Floor Coating, Static Grounding Device for Personnel.		
LEHIGH SAFETY SHOE CO. Race and Court Sts., Allentown, Pa.	87-S	30-31
Representatives: F. B. Griswold, John E. Ellis, Arnold F. Warner, Lawrence F. Connolly, Paul E. Masters. Manufacturers—Leather Safety Box Toe Shoes and Rubber Boots.		
LIGHTFOOT SCHULTZ CO. 663 Fifth Ave., New York 22, N. Y.	47-S	—
Representatives: William E. Pemberton, J. D. Compton, O. O. Baddeley. Manufacturers—Granulated Skin Cleansers, Lotion, Bar Soap and Dispensers.		
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Representatives: R. T. Stelmora, C. R. Flaks, L. C. Johnson. Manufacturers—Industrial Vacuum Machines, Floor Scrubbers and Polishers, Scarifiers and Auto-Scrubbers.		
LOGAN MFG. CO. 721 E. Broadway, Glendale, Calif.	1-C	—
Representative: Hugh H. Logan. Manufacturers—Emergency Showers, Industrial Shower Room Equipment.		
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Representatives: Frank S. Smith, Jr., John F. Myers, Walter Rose. Manufacturers — Aluminum Ladder and Scaffolding Products.		
LUTHER MFG. CO., INC. 126 E. Sullivan St., Olean, N. Y.	5-C	—
Representatives: James H. Luther, George Anderson, McKnight L. Phillips. Manufacturers—Power Press Guards.		
MACHWYTE COMPANY 2902 Fourteenth St., Kenosha, Wisc.	78-S	32-33
Representatives: F. J. Nelson, G. W. Drysdale, E. F. Garra. Manufacturers—Wire Rope and Braided Wire Rope Slings, Fittings and Cable Assemblies.		
MAGLINE, INC. Pineconing, Mich.	19-C	200
Representatives: D. C. Law, R. V. Miller, F. A. Reger. Manufacturers—Magnesium Safety and Materials Handling Equipment.		

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Representatives: Denis P. Walsh, Thomas D. Stevens, Roy O. Schiebel, Jr., Arthur R. Lindgren, Jr., William A. Cannon, G. F. Newburg. Manufacturers—Magnaflux Equipment for Maintenance, Safety and General Inspection.		
MARSH & McLENNAN, INC. 231 S. La Salle St., Chicago 4, Ill.	134-135-S	8
Representatives: R. W. Hutchinson, L. A. Foschimbaur, Ralph Crosby, K. E. Reed, F. H. Harrison. Insurance Brokers and Agencies.		
MARTINDALE ELECTRIC CO. 1375 Hird Ave., Lakewood, Cleveland 7, Ohio	44-S	—
Representatives: Roy Biersch, Florence Biersch, Joe Rick. Manufacturers — Protective Dust Mask, Electric Testing and Indicating Instruments.		
MASURY-YOUNG CO. 76 Roland St., Boston, Mass.	20-21-C	42
Representatives: Donald M. King, Ernest V. Hatch, P. C. Archer, Robert D. Lane, Stanley E. Kredler. Manufacturers — Safety Floor Treatment and Maintenance Materials.		
McAN, THOM, SAFETY SHOE DIVN. MELVILLE SHOE CORP. 25 W. 43rd St., New York 18, N. Y.	118-S	43
Representatives: William J. Smith, M. K. Ailyn, Carl Dowell, Martin Gates, Edward Serrapada, Jack Speer, Walter Schember, Martin Bitler, Peter Goldschmeding John Yudd. Manufacturers and Distributors — Thom McAn Safety Shoes.		
McDERMOTT, JULIAN A., CORP. 40-22 National St., Corona, L. I., N. Y. ...	60-S	—
Representatives: J. A. McDermott, Harry Davis, Jr., Robert G. Fleming. Manufacturers — Warning, Work, Safety Lighting for Industrial, Utility Aviation Use.		
McDONALD, B. F. CO. 5721 W. 96th St., Los Angeles 45, Calif.	61-62-S	24-25
Representatives: B. F. McDonald, Stan Tolley, Marion Brown, Ed Stanzel, J. J. Delahide. Manufacturers and Distributors—Industrial Safety Appliances and Clothing.		
MEDICAL SUPPLY CO. 1027 W. State St., Rockford, Ill.	137-138-S	143
Representatives: Gordon P. St. Clair, Gordon C. Nelson, A. F. Johnson, James A. Chapin, Roland R. Clark. Manufacturers and Distributors—MSCo Flexible Unit First Aid.		
METROPOLITAN LIFE INSURANCE CO. 1 Madison Ave., New York 10, N. Y.	139-S	—
Representatives: Thomas J. Berk, Edward R. Seese, Edmund J. Sempie. Educational Publications and Materials Dealing With Safety.		
MILBURN CO. 3246 E. Woodbridge, Detroit 7, Mich.	59-S	—
Representatives: J. A. Seifer, Mrs. M. D. Leach, George Cole. Manufacturers—Ply Protective Creams, Ply Garb Plastic Clothing, Ply Gloves, Plastic Work Gloves.		

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MINE SAFETY APPLIANCES CO. Baddock, Thomas and Meade Sts., Pittsburgh, Pa. Representatives: George H. Danke, J. T. Ryan, Jr., J. B. Davies, C. M. Donahue, F. A. King, J. W. McCrackin, G. W. Luscher, H. N. Gruber, H. W. Richards, H. J. Segrave, C. H. Mehaffey, C. R. Dover, C. H. Sanderson, E. W. Merry, B. W. Catalane, E. M. White, J. S. Moore, H. R. Johnson, V. W. Buys, J. C. Jack- son, C. V. Miller, K. W. Hanlon, W. T. Coker, Jr., H. N. Trice, R. A. Pohl. Manufacturers—Safety Equipment for Every Industry.	81-84- 85-86-S	I.F.C.-35	PROTECTOSEAL CO. 1920 S. Western Ave., Chicago 8, Ill. Representatives: William E. Belt, Joseph J. McGinnis, David P. Anschicks, Gerald T. McGarry, Charles R. Peck, R. Harper Folkemer. Manufacturers—Safety Cans, Oily Waste Cans, Flame Arresters, Devices for Flam- mable Liquids.	105-106-S	69
MULTI-CLEAN PRODUCTS, INC. 2277 Ford Parkway, St. Paul 1, Minn. Representatives: N. H. McRae, E. V. Coult- er, E. C. Hesli, Dan McNeely. Manufacturers—Floor Maintenance Equip- ment and Materials.	25-26-C	63	PULMOSAN SAFETY EQUIPMENT CORP. 644 Pacific St., Brooklyn 17, N. Y. Representatives: Larry Foley, Carrington Cabell, Floy Jennings. Manufacturers—Industrial Safety Equip- ment.	20-S	74
NATIONAL SAFETY COUNCIL 425 N. Michigan Ave., Chicago 11, Ill. Representatives: Ruth Parks, W. G. John- son, D. A. Pickerell, H. W. Champlin, Lons Zeasing, Ruth Nielander, Dorothy Heinz.	155-S 180-181-182 Congress Hotel		PYRENE MFG. CO. 560 Belmont Ave., Newark 8, N. J. Representatives: Martin R. Ayers, F. R. Kachel, S. C. Williams, Jr. Manufacturers—Fire Protection Equipment.	127-S	—
OCCUPATIONAL HAZARDS, INC. 1240 Ontario St., Cleveland 13, Ohio Representatives: Irving B. Hexter, Edwin M. Joseph, N. N. Goodman, Jr. Publishers.	68-S	—	RACINE GLOVE CO., INC. Box 202, Rio, Wisc. Representatives: O. Reed Bigelow, Frederick P. Ouring, William S. Jeteritz. Manufacturers—Gloves, Apparel, Protective Equipment, Leather, Asbestos and Steel Reinforced.	30-C	—
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ONOX, INC. 121 Second St., San Francisco, Calif. Representatives: James de Fremery, H. A. Jensen, Robert de Fremery, L. C. Egnor. Distributors—Onox Skin Toughener for Athlete's Foot Prevention.	40-S	186	REECE WOODEN SOLE SHOE CO. 13th St. and 41st Ave., Columbus, Neb. Representatives: Dorothya Reece, Angeline R. Bergman, Gus Bergman. Manufacturers—Reece "Perfect Rocker" Wooden Sole Safety Footwear.	115-S	77
OSBORN MFG. CORP. Argonne Road, Warsaw, Ind. Representatives: Robert E. Osborn, For- rest D. Mitterling. Manufacturers—Safety Pliers and Tongs for Feeding Punch Presses.	34-C	178	RICH LABORATORIES SALES DIVN., INC. Emigville, Pa. Representatives: Ernest Rich, Bart Ring, Henry F. Wile. Manufacturers—First Aid for Burns.	9-C	203
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PATENT SCAFFOLDING CO., INC. 1550 Dayton St., Chicago 22, Ill. Representatives: Nels F. Borggaard, Earl W. Enthof, Victor Arbor, Arthur Heon, E. K. Klein. Manufacturer—Gold Medal Wood and Magnesium Safety Ladders, Suspended, Sectional Tubular Steel and Aluminum Scaffolding, Sidewalk Protection Canopies, Steel Grandstands.	98-99-S	20-21	SAFETY CLOTHING & EQUIPMENT CO. 7016 Euclid Ave., Cleveland 3, Ohio Representatives: E. H. Brooks, L. F. Brooks, L. P. Debes, A. A. Hood, J. A. Finegan. Manufacturers—Safety Clothing and Equip- ment for Every Type Industrial Worker.	55-56-S	34
			SAFETY FIRST PRODUCTS CORP. 170 Saw Mill River Road, Elmsford, N. Y. Representatives: Martin Fleming, Jere Fleming, Charles E. Noyes. Manufacturers and Distributors—Dry Chemical Fire Equipment.	24-C	75

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SALISBURY, W. H., & CO. 401 N. Morgan St., Chicago 22, Ill. Representatives: T. R. Claffy, W. H. Salisbury, M. J. Allison, D. L. Reitz, C. Paul. Manufacturers—Linemen's Rubber Protective Equipment.	90-91-S	72	SUGAR BEET PRODUCTS CO. 302 Waller St., Saginaw, Mich. Representatives: Lauren E. Lee, John Strickland, Kenneth Zehnder. Manufacturers—SBS Skin Cleanser and Cleaner.	19-S	—
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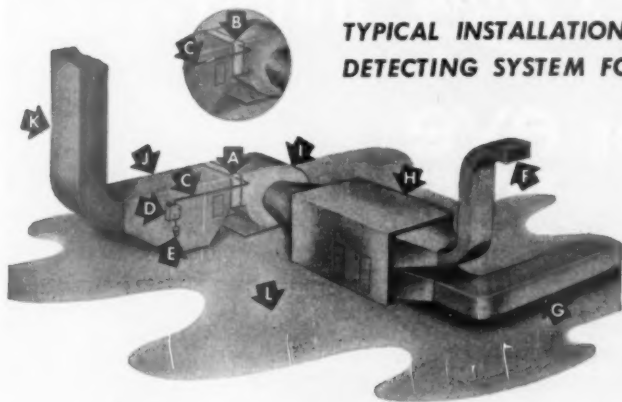
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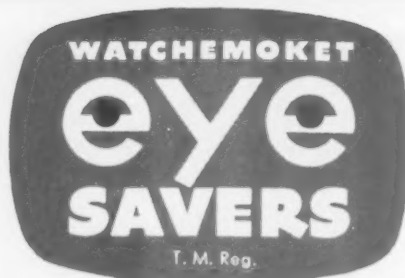
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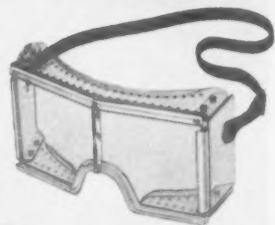


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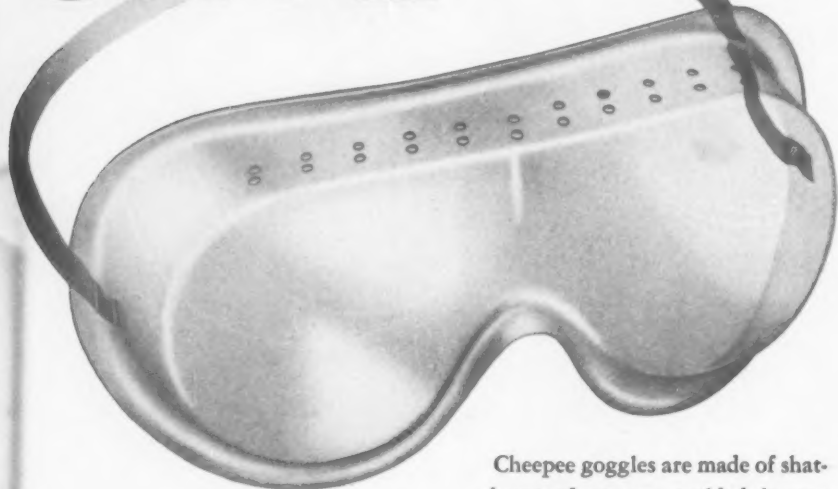
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**KEEP
OUT**

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**CAUTION
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GOGGLES**

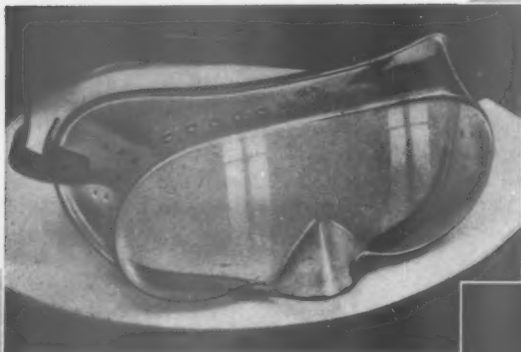
WATCHMOKET OPTICAL CO., INC.
SIGN DIVISION • PROVIDENCE • RHODE ISLAND

IN CANADA • LEVITT-SAFETY LIMITED, TORONTO 10, MONTREAL 1

the SAF-I-TRIPLETS

**these three models offer
full protection from all impact,
chemical and dust hazards.**

pioneers in the field



SAF-I-SHIELD—Rugged one piece design—Full protection from all impact hazards—One size fits everyone—Low Cost—Genuine Comfort.



SAF-I-DUO—With replaceable lens made of Optilite or acid resistant plastic. Velvet soft, durable VINYL frame. Full protection from chemical splashes, impacts, fumes and dust.



SAF-I-SPEC—Low cost replaceable one-piece lens can be quickly and easily changed. Lens interchangeable with SAF-I-DUO. Snug fitting comfortable temples.

All three have these features

- made of Optilite
- optically correct
- genuine comfort
- fit over personal glasses
- smart appearance
- meet federal specifications for impact resistance

Write for literature and prices

UNITED STATES SAFETY SERVICE CO.

Kansas City 6, Missouri
IN CANADA

Branches in Principal Industrial Cities
PARMELEE, LTD. TORONTO

First Again!

**IN PRESENTING NEW AND IMPROVED
SAFETY PRODUCTS**



**See them at the National
Safety Congress**

BOOTHS 100 and 101

- ▶ **First to manufacture optically molded Plastic Eye Protection.**
- ▶ **First to design a plastic spectacle lens interchangeable with a Cover Type Goggle.**
- ▶ **First to introduce Enteric Coated Salt Tablets.**
- ▶ **First to introduce Impregnated Salt Tablets.**
- ▶ **First to manufacture an Expendable (Throw Away) Salt Tablet Dispenser.**

Our Research and Development Staff is now working on several new products which we believe will result in some more "Firsts".

Our Engineering Department is constantly working to improve the design of our present products and many improvements have been made in the past year.

We want to give full credit to the fine acceptance of our products by the user, which has made these "Firsts" possible.

UNITED STATES SAFETY SERVICE CO.

Kansas City 6, Missouri.

Branches in Principal Industrial Cities

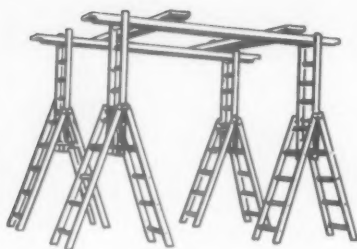
IN CANADA

PARMELEE, LTD.

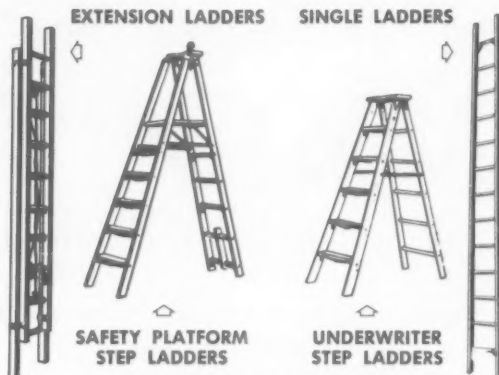
TORONTO

Gold Medal LADDERS SCAFFOLDING

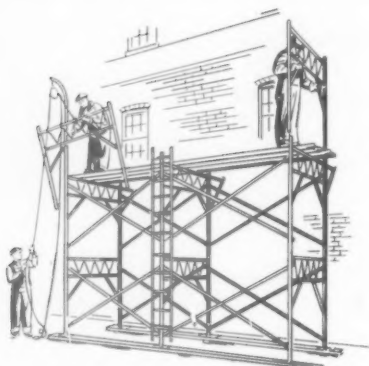
.. by the leaders in the scaffolding industry!



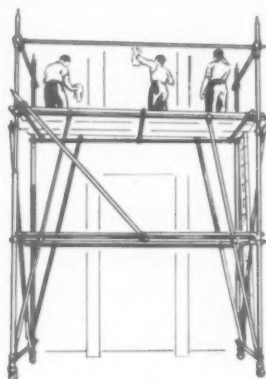
**GOLD MEDAL
SAFETY EXTENSION TRESTLES**



GOLD MEDAL LADDERS
(Also Magnesium Ladders)



**"TROUBLE SAVER" SECTIONAL STEEL
SCAFFOLDING**



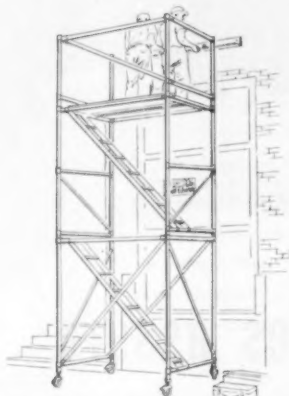
**GOLD MEDAL
TUBEBOX ROLLING SCAFFOLD**

**See Our Exhibit at the NATIONAL SAFETY CONGRESS
HOTEL STEVENS, CHICAGO, OCTOBER 8 to 12, 1950
VISIT BOOTHS 98 and 99**

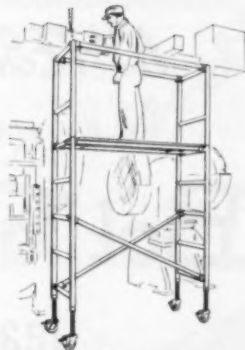
Members of our staff will be on hand to welcome you and discuss your scaffolding problems.

ALUMINUM SCAFFOLDS

... for the leaders in industrial safety!



SECTIONAL ROLLING SCAFFOLDS*



SECTIONAL LADDER SCAFFOLDS*

* Aluminum scaffolds are available with extension legs having either standard screw adjustment or "Quick-Adjustable" mechanism.

STEEL
or
ALUMINUM



TUBELOX SCAFFOLDING



SWINGING SCAFFOLDS



For Greater Safety . . . Efficiency . . . Economy

THE PATENT SCAFFOLDING CO., Inc.

38-21 12th Street, Long Island City 1, New York Dept. NSN, 1350 Dayton Street, Chicago 22, Illinois

*There's
always
something
NEW at
HY-TEST!*

NOW...

feature **exclusive**

BolTan

**leather insoles assure
up to twice the
wear per pair**

BolTan

**insoles are
extremely flexible
and
comfortable**

BolTan

**leather insoles
are sweat
resistant**

... Insure Workers' Feet in Sure Protection



THE WORLD'S LARGEST SELLING SAFETY SHOE

HY-TEST DIV. INTERNATIONAL SHOE COMPANY • SAINT LOUIS 3, MISSOURI

HY-TEST SAFETY SHOES

Bol Tan leather insoles

Bol Tan
insoles
stay soft
and
pliable

through-
out the
life of
the shoe

Bol Tan
insoles will
not curl, crack or dry
out because of
perspiration

Now, at no extra cost you can provide your workers with longer lasting safety shoes... Hy-Test Safety Shoes with Bol Tan leather insoles.

After years of research, experimentation and testing, the makers of Hy-Test Safety Shoes have perfected Bol Tan, a revolutionary new sweat-resistant insole that adds up to 100% to the life of Hy-Test shoes.

Tested under foundry working conditions

Bol Tan insoles were not only found to outlast ordinary insoles, but remain extremely flexible and comfortable throughout the life of the shoe.

No other safety shoes feature Bol Tan, a Hy-Test exclusive; developed, proved and produced by International Shoe Company.

Be sure to see
HY-TEST'S COMPLETE LINE
over 60 different types and styles
for every industrial requirement

Featuring

Bol Tan Insoles and Winguard 400
Steel Box Toes

BOOTH 95—STEVENS HOTEL
National Safety Congress
and Exposition
Chicago—Oct. 8-12

HY-TEST SAFETY SHOES



*TRADEMARK REG. U. S. PAT. OFF.

THE WORLD'S LARGEST SELLING SAFETY SHOE
HY-TEST DIV: INTERNATIONAL SHOE COMPANY • SAINT LOUIS 3, MISSOURI
NEW YORK OFFICE: SUITE 1700, 235 W. 34TH ST. • EASTERN OFFICE: MANCHESTER, N. H.



The Safety Stars



McDonald SAFE-T-HAT

Light aluminum alloy, ribbed crown for extra strength. Shock-absorbing headband is interchangeable and adjustable.
Two shell sizes fit all heads.



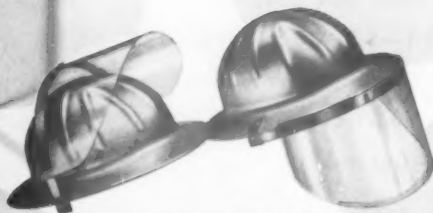
McDonald CLEAR-VUE DUSTFOE RESPIRATOR

U. S. Bureau of Mines approved for all dusts, including lead dust, or pneumoconiosis-producing dusts and mists. Cushioned, aluminum face piece insures comfort... clear plastic filter holder for instant filter check.



McDonald FACE SHIELD

Full vision with full safety. Protects face, eyes, forehead against sparks, molten metal or fragments. Lightweight, fog-resistant plastacele. Leather sweatband, rubber headband. Four sizes available with or without binding.



McDonald T-HAT WITH FOLD-BACK

FACE SHIELD For eye and face safety—snaps quickly onto "T" hat, folds back when not in use. Standard length 6"—also available in 8 or 9 inches. Clear or green cellulose acetate in .030 gauge or heavier.



B. F.

of '51



GWEN CALDWELL
MISS SAFETY OF '51



McDonald SAFETY BELT

For derrickmen — available in two types: lightweight, quick cast-off Type "S" with 3" body pad and Type "R." D ring always stays in same relative position. Adjustable—28" to 48".



McDonald SAND BLAST HELMET

Lightest, most compact helmet on the market! Made of strong duralumin. Features positive pressure control—top safety for operators.



McDonald KANISTER KIT

On-the-spot first aid for workers.

Sturdy extruded aluminum Kanister holds handy roll-up kit containing vital first-aid supplies. Dust and weather-proof.

SEE OUR BOOTHS

at the National Safety Congress

SPACES 61 AND 62



MCDONALD CO.

Manufacturers and Distributors of Industrial Safety Equipment

2321 Milam Street, Houston 6 5721 West 96th St., Los Angeles 45 1255 Howard Street, San Francisco 3

Flash!

Injuries again going

AO's Complete Line of Safety Equipment will Safeguard your Workers — Cut Your Costs!

New Workers and Longer
Hours Reverse Three Year
Downward Trend. At the End
of the First Quarter, the Injury
Frequency Rate Was 16%
Higher Than a Year Ago.

Industrial accidents cost \$40 per worker in 1950*
...and accidents are rising in 1951. \$40 per worker
is a lot of money, and the National Safety Council
observes: "In companies or industries with high in-
jury rates, or in which little has been done about
safety, the cost per worker probably would be
much higher."

Proper safety equipment can't *prevent* all accidents
but combined with wise safety regulations which are
adhered to, it *can reduce to the vanishing point both*

the number of plant accidents and their severity.

Every working day throughout America and
foreign countries AO's COMPLETE LINE of quality
protective products in goggles, respirators, clothing
and gloves is saving money and man hours—as well
as eyes, limbs and lives. For completeness of supply,
quality of product, convenience to your plant and
high standard of service, it will pay you to call your
nearest AO Safety Products Representative—always.

*ACCIDENT FACTS—1951 Edition



SOUTHBRIDGE, MASSACHUSETTS • BRANCHES IN PRINCIPAL CITIES

up in 1951!



COMFORTABLE SAFETY GOGGLES THAT PROTECT!

In the extensive line of AO Safety Goggles are over 20 products. Want a spectacle type Ful-Vue? AO has it — in metal or plastic. Want a goggle with exceptional wide-angle vision? AO has it in the "Panoram" and other models. Similarly, AO has the specific goggle that meets each worker's needs and preferences for welding, dust protection, foundry work, chipping, chemical operations, sand blasting—every industrial use.

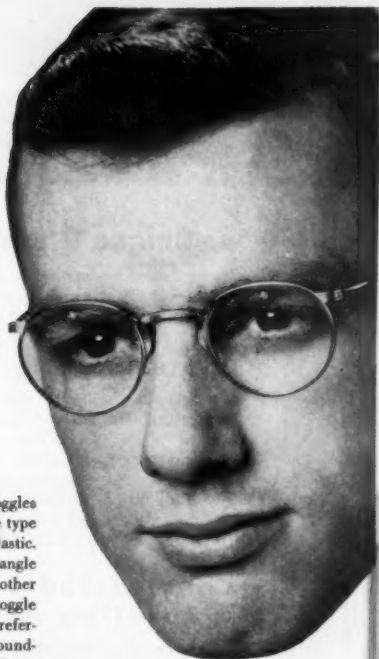
COMFORTABLE PROTECTIVE CLOTHING THAT PROTECTS!

In safety clothing, AO can protect your workers from head to foot with long wearing, non-cumbersome materials that meet workers' requirements. Whether the hazard is flame, heat, hot metal splashes, rough stock, oil, grease, acids or alkalis — AO has the product that will do the job — and *do it well* . . . in asbestos, cowhide, horsehide, flame-resisting duck and the new "Protecotote" line of neoprene latex. Look for this quality protection in gloves, mittens, hand pads, finger guards . . . in coats, jackets, leggings, spats . . . in aprons and sleeves.

COMFORTABLE RESPIRATORS THAT PROTECT!

In respirators too, AO has MORE TO OFFER! For instance, the R5000 line of twin cartridge respirators. By quick interchanging of threaded cartridges and disc filter on one basic face piece, any of seven respirators is provided for protection against dusts, vapors and gases. Another respirator which has proved its worth on the job is the R2000 with its 7 types of cartridges and filter. A "twist of the wrist" interchanges all cartridges. Its chemically treated felt throw-away filter with the efficiency of filters eight times as large is revolutionary in the industry.

**SEE AO Products at Booths 79, 80,
81 at National Safety Congress
Show, Chicago, Oct. 8 thru Oct. 12**



FIELD PROVED

Unique 9 Part Fabric

Its patented construction is entirely unlike any other. Scores of wires are stranded in 9 parts, then into three parts.

Interlaced By Machine

On special precision machines, originated by Union Wire Rope engineers, three three-strand parts are so interlaced as to form a sling fabric so much stronger, with so much tougher wearing qualities and with so much more flexibility that you just have to see how much longer service it gives to believe it.

Constructed To Prevent Rotating of Load

The inequalities of hand made slings are eliminated. The parts of Tuffy Sling fabric are so uniquely interlaced that they neutralize the load torque which causes rotating of the load on straight pulls.



Tested Strength Is Twice Safe Working Load Limits

Metal tags on Tuffy Slings give their safe working load. Each sling or leg of a bridal sling is proof-tested to twice this safe working load.

PATENT NO. 2,454,417

95% of Fabric Strength Is Developed In the Eye Splices

Here the unique interlacing of Tuffy scores again. It permits ready forming of eye splices possessing 95% of the strength of the sling fabric.



UNION

Wire Rope

Super
TOUGH

Ultra
FLEXIBLE

REG. TRADE MARK



Tuffy Slings

Tuffy Sling Fabric also Available for Eye Splicing in Your Own Rigging Loft

If you are rigged for eye splicing your own slings, Tuffy Sling fabric is available on the reel. Your riggers will like the ease and speed of splicing that Tuffy interlaced construction affords.

Working any sling under load with knots or kinks in it is not recommended. But, sometimes it's unavoidable. Then is when the ultra-flexibility of Tuffy Slings stand you in good stead. Tuffy can take more of such punishment longer and you can straighten them out more often without material damage. The same is true of flattened eyes and because of the unique interlaced fabric construction, cutting of any one of the 9 strands will not result in stranding of the sling.

For a long time now, Tuffy Slings have proved they have the extra strength and ultra-flexibility to stand up during longer service on any kind of a load, under any kind of pull and with every type of hitch.

Try any one of the 9 factory packaged sizes. Prove their money-in-your-pocket worth to you to your own satisfaction.

UNION WIRE ROPE CORPORATION

2224 MANCHESTER AVE.

KANSAS CITY 3, MO.



Send new comprehensive Tuffy Sling Handbook including complete Riggers Manual.



FIRM NAME _____
BY _____ TITLE _____
ADDRESS _____
CITY _____ ZONE _____
STATE _____

FOR ALL THAT'S NEW IN SAFETY
BACKED BY A UNIQUE PLANT-

THAT PUTS THEM



NEW
SOCK-SAVER
TOE LINING



NEW
MOCCASIN
STYLES



NEW
DUAL-DUTY
OXFORDS



SHOES...



NEW
WOMEN'S
SHOES



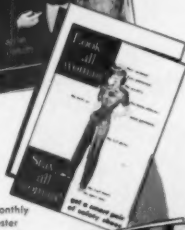
TESTED PROGRAM

ON FEET

VISIT
BOOTH
87
NATIONAL
SAFETY
CONGRESS
Chicago



Guest
Lecturer



Monthly
Poster
Service



Pay
Envelope
Stuffers

Shoe Sizer



NEW
HI-CUTS



LEHIGH

SAFETY SHOE COMPANY
ALLENTOWN, PA.

MACWHYTE SLINGS AT WORK

These pictures illustrate the wide range of material being handled by Macwhyte Slings in hundreds of plants.



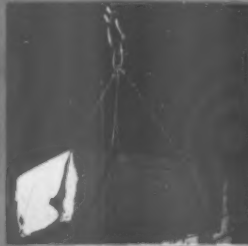
ATLAS Type 1 Round-Braided Slings
lifting marine engines



MONARCH Type 1 Slings
handling boiler



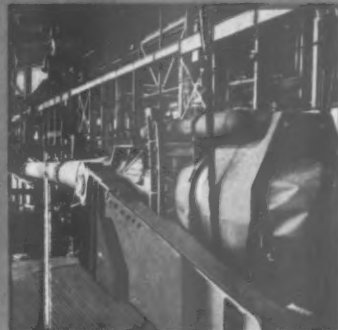
MONARCH Type 1 Slings
handling roll



ATLAS BH-2 Round-Braided Sling
handling sheet pack



DREW Flat-Braided Slings
loading refinery vessel



ATLAS Type 1 Round-Braided Slings
handling gun



DREW Flat-Braided Sling assemblies
moving refinery tower



ATLAS Type 5 Round-Braided Slings
handling tank



ATLAS Type 1 Round-Braided Sling
lifting water turbine shell



MACWHYTE Lift Beam and MONARCH
Slings handling sheet steel



DREW Type 5 Flat-Braided Slings
lifting section of submarine

MACWHYTE COMPANY

2902 Fourteenth Avenue, Kenosha, Wisconsin. Mill Depots: New York • Pittsburgh • Chicago • Minneapolis • Fort Worth • Portland • Seattle • San Francisco • Los Angeles. Distributors throughout U.S.A. Manufacturers of Internally Lubricated PRE-formed Wire Rope, Braided Wire Rope Slings, Aircraft Cables and Assemblies, Monel Metal and Stainless Steel Wire Rope. Complete information gladly furnished on request.

SPECIALLY MADE FOR YOUR NEEDS

Here are shown three
Macwhyte E-2 Slings.
Each has a different
body design.

Many sizes and constructions

All Macwhyte Slings are made to order
in the size . . . length . . . type and body
design . . . to meet your needs.

Take advantage of our experience and
save time and money. For complete in-
formation write to Macwhyte Company
or any Macwhyte authorized distributor.

Member National Safety Council



For cranes and hoists use PREformed
Monarch Whyte Strand Crane Rope
made by Macwhyte Company



**MACWHYTE
COMPANY**
KENOSHA, WIS.

1007

Monarch E-2
Single-part
Wire Rope Sling

Drew E-2
Flat-braided
Wire Rope Sling

ATLAS E-2
Round-braided
Wire Rope Sling

GARDWELL Products

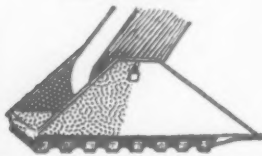
FIRST AIDS TO SAFETY FROM GARDWELL CATALOG NO. 50

GARDWELL FIRST AID CABINET



GARDWELL No. 66 Utility First Aid Cabinet has pull-out ledge at bottom that forms working shelf. Has water cup dispenser at side. Contains 58 items. Size 38" x 24" x 9".

**GARDWELL "SAFE-HI"
LADDER SHOES**



Made of cold rolled steel, equipped with combination tread of rubber, cord and ridges, and with self sharpening spike with tool steel core, these Ladder Shoes are approved by Underwriters Laboratories for all surfaces. Painted yellow to attract attention and avoid accidents.

And, of course, a complete line of GARDWELL Asbestos clothing, gloves, mittens, leggings, etc.

**GARDWELL "SANKEY" FOOT
GUARD**



Designed to be worn over shoe. No discomfort nor loss of efficiency. Fits all shoes—no left or right. Furnished in 3 sizes and two thicknesses of steel or aluminum.

GARDWELL SAFETY BELTS



Made in a wide variety of styles from web or leather or a combination of both. The No. M-601, illustrated, is an ideal body belt for climbing or working in close quarters. Has 4" body pad securely attached to belt. Rawhide reinforcement where Dee is attached. Special tested hardware.

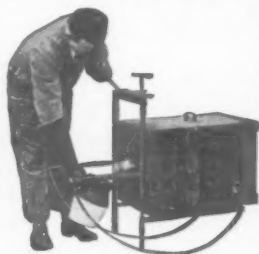
GARDWELL KNEEL-EZ KNEE PADS



Built entirely of rubber with sponge rubber cushion in inside. Fit any knee, fasten with adjustable straps. Do not slip when walking. Recommended for jobs where workers are constantly on knees.

Visit the GARDWELL EXHIBIT at National Safety Congress, Booths No. 55 & 56 and learn about all GARDWELL PRODUCTS.

GARDWELL CARBOY POURER



GARDWELL No. 1264 Carboy Pourer handles acids safely and easily. Completely drains carboy by tipping until handle touches floor. Made for 5-gallon and 12-gallon carboys. Specify size in ordering.

**SEND FOR A COPY OF GARDWELL CATALOG NO. 50, DESCRIBING ALL
GARDWELL SAFETY CLOTHING AND EQUIPMENT.**

Safety **CLOTHING AND EQUIPMENT Co.**
DESIGNERS AND MANUFACTURERS

1990 EAST 69TH STREET

CLEVELAND 3, OHIO

PHONE HENDERSON 2-0400

9 WAYS that helped cut Accident Frequency 97%+

for WEST VIRGINIA
PULP and PAPER CO.
Tyrone Mill



Explosive gas concentrations are detected with an M.S.A. Explosimeter before welding crews move in.



Potential carbon monoxide danger zones are probed regularly with the M.S.A. Carbon Monoxide Tester.



Where chlorine gas concentrations are present, workers are safeguarded with M.S.A. chlorine gas masks.



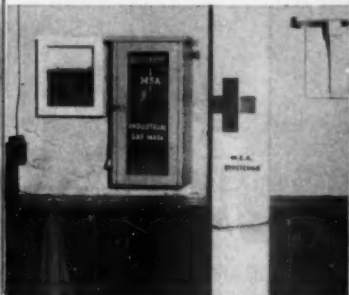
Harmful dusts, present during lime kiln operations, are combated with M.S.A. "Comfo" Respirators.



Light concentrations of chlorine gas and sulphur dioxide are trapped in the chemical cartridge of M.S.A. "Gasfoe" Respirators.



Smoke, fumes and gases are exhausted from enclosed areas with M.S.A. Lamb Air Movers before workers enter.



Safety stations equipped with M.S.A. Industrial Gas Masks, First Aid Kits, and Stretchers are available for emergencies.



Emergency protection for chlorine plant workers is provided by M.S.A. Industrial Gas Masks in individual lockers.



Cleaning respirators daily in plant "laundry" assures sterile, desirable protection for workers at all times.

Faced in 1944 with the worst annual safety record in the company's history, officials of the Tyrone (Pa.) Mill of the West Virginia Pulp and Paper Company decided to do something about it.

An intensive and continuing educational program, stressing the proper use of safety equipment, protective devices, and instruments, was put into operation. Within a six year period, the company's accident frequency rate had dropped from a record breaking high of 63.39 to an award winning low of 1.88.

Dependable M.S.A. equipment played an important role. The illustrations above show several ways in which this equipment is used to protect employees on the job and in emergencies.

If you're not satisfied with your present safety record, and would like to do something about it, you'll find a lot of sound safety know-how, backed by a complete line of proved safety equipment, at your nearest M.S.A. Office. Write, wire, or phone—we'll be happy to discuss your problems with you.

MINE SAFETY APPLIANCES COMPANY

Braddock, Thomas and Meade Sts., Pittsburgh 8, Pa.

At Your Service: 48 Branch Offices in the United States

Mine Safety Appliances Co. of Canada Limited

Toronto, Montreal, Calgary, Winnipeg, Vancouver,

New Glasgow, N.S.

Representatives in Principal Cities in Mexico, Central and

South America

Cable Address: "Minsaf" Pittsburgh



Call the M.S.A. Man on
your every safety problem
—his job is to help you

M.S.A.
SAFETY EQUIPMENT HEADQUARTERS

Listen! LET YOUR WORKERS TELL YOU WHY BANISHING "Factory Hands" LIFTS MORALE

THIS STEPAN CLEANSER
SURE TAKES THE STING
OUT OF WASHING UP!

IT SURE DOES! MY HANDS
HAVEN'T LOOKED AND
FELT THIS GOOD SINCE
I STARTED WORKING HERE.



TWO Correct Cleansers

STEPAN pH6 cuts the toughest grime — gently, swiftly. Recommended for oily operations or where workers are in contact with known skin irritants.

STEPAN'S revolutionary NEUTRA-FOAM — not a soap — a new mild synthetic skin detergent.



Fast—but gentle—pH6 takes the hazard and irritation out of wash ups. Raw, red "Factory Hands," the uncomfortable and often inefficient result of scrubbing with harsh cleansers, can be a thing of the past with pH6 in your plant washrooms.

STEPAN pH6 was carefully formulated to protect the worker involved in oily or greasy operations. The low

pH of this cleanser lessens the hazard of occupational dermatitis—means better morale and greater efficiency to you.

STEPAN NEUTRA-FOAM, a new, synthetic, lathering skin cleanser concentrate is truly neutral, having a pH of only 7.2. NEUTRA-FOAM will not hydrolyze and form free alkali, which tends to destroy the protective acid mantle of the skin.

for FREE SAMPLES
and complete technical data
SEE US AT BOOTHS No. 28-29
NATIONAL SAFETY CONGRESS

THE STEPAN CHEMICAL CO.

1353 N. North Branch St.
Dept. NS10, Chicago 22, Ill.

NEUTRA-FOAM has other advantages, too. Employees like its rich, abundant lather. And this cleanser leaves no lingering, disagreeable soapy odor on the skin.

NEUTRA-FOAM can be shipped anywhere at any time of the year. It is readily and completely soluble in all proportions with water. And it's neat in use.

STEPAN REPRESENTATIVES

HOUCAN SALES

P. O. Box 4082, Baton Rouge, La.
THE GENERAL EQUIPMENT CORP.
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THE WATSON CO.

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GUARDIAN SAFETY EQUIP. CO.

1915 Westheimer, Houston 6, Texas

KOPPELMYER SAFETY CO.

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BELLOWS & CO.

Hewells Ridge Rd., Knoxville, Tenn.

GUARDIAN SAFETY EQUIP. CO.

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JOE FARRINGTON, INC.

59 N.W. 10th St., Miami 32, Fla.

W. H. POPPE

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SANITARIUM SUPPLY CO.

731 Lincoln Ave., Peoria, Ill.

GUARDIAN SAFETY EQUIP. CO.

4606 Walnut St., Philadelphia 39, Pa.

SAFETY FIRST SUPPLY CO.

425 Magee St., Pittsburgh, Pa.

ROCHESTER SAFETY EQUIP. CO.

83 Howell St., Rochester, N. Y.

STANDARD CHEM. CO.

1918 Washington St., St. Louis 3, Mo.

GUARDIAN SAFETY EQUIP. CO.

1875½ E. 17th St., Tulsa 4, Okla.

NEW 1 QUART STORED PRESSURE FIRE EXTINGUISHER . . .

**AIMS AND OPERATES
LIKE A GUN**



Versatile



ALFCO AIR PRESSURIZED FIRE-GUN

Aims like a gun . . . trigger-quick action . . . hits target instantly, accurately . . . discharges one quart of Fire-Gun Fluid . . . compressed air expelled . . . no pumping . . . excellent range 25 to 30 ft. . . operates with one hand . . . easily recharged . . . pressurize with any standard air chuck exerting 150 psi . . . will not freeze.

This is the newest and most effective one quart fire extinguisher for Class B and C fires we have yet designed. Inspected and approved by Underwriters' Laboratories. Write for fully illustrated literature.



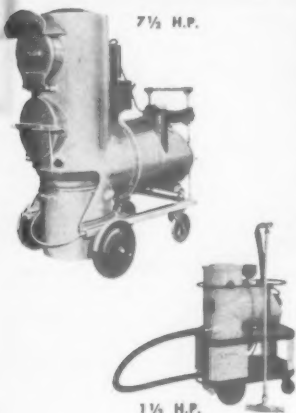
Two Centuries
of Leadership in
FIRE PROTECTION

AMERICAN-LA FRANCE-FOAMITE
ELMIRA, NEW YORK, U.S.A. Corporation



You are cordially invited to visit our booths, 116 and 117

National Safety News, October, 1951



WHY

Safety and Sanitation

COST LESS WITH
SPENCER VACUUM

Hundreds of plants have secured a much higher degree of safety and sanitation with Spencer Vacuum at a much lower cost than could have been obtained with ordinary cleaning methods.

A maintenance crew for instance, can keep large floor areas "clean enough" by hand methods, if given enough time. Spencer Vacuum would enable the same crew to clean the floors twice as often, and would remove all dangerous dust, as well as the more bulky aftermath of a busy production day.

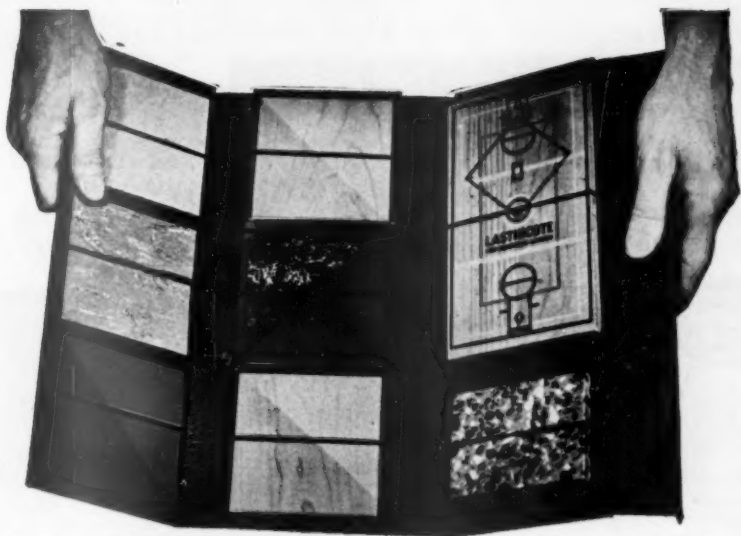
Then there are many other plant improvements which cannot be secured any other way. Spencer Vacuum is being used to remove welding and other toxic fumes at their source. It handles hot materials, keeps the dust count down in foundries and picks up magnesium chips. It also removes liquids from floors and 132 other essential uses which are described in Spencer Bulletin No. 144.

The Spencer 1 1/2 and 7 1/2 h.p. portable vacuum cleaners illustrated are the most popular sizes for busy industrial plants. Stationary Vacuum Systems for the big jobs of industry are made in catalog sizes up to 100 h.p. They are described in Bulletin No. 125.

SEE SPENCER AT BOOTH NO. 67

<p>REMOVING FUMES</p>	<p>RECLAIMING BABBITT</p>	<p>CLEANING MOLDS</p>
<p>THE SPENCER TURBINE COMPANY • HARTFORD 6, CONNECTICUT</p>		
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470 CD



VISIBLE PROOF that may save you the cost of a new floor!



A professional kit—specially designed for visual comparison. Contains virtually every type of flooring made from linoleum to terrazzo! One-half of each flooring sample is untouched—while the other half is coated with the West sealer or finish formulated to preserve the surface indefinitely. Select the sample that applies to you. Inspect the treated and untreated surface. Scratch it. Burn it. Soak it. Choose the finish that meets your requirements—without moving from your desk!

Now make the only true test. Pick one or more test patch sites in your heavy traffic areas. In front of washstands . . . doorways . . . elevators. Your West representative will show your maintenance man how to prepare the floor and apply the proper West finish. Or, if necessary, he'll roll up his sleeves and lay down the material himself! When the test period is over . . . you be the judge.

—And still the job isn't complete. As your West representative knows, the science of floor preservation is a three-fold job. Each step is vitally important to the continued beauty and long-wearing properties of your floors . . . all three are described in our booklet, "The Proper Care of Floors". A copy is yours for the asking. An actual demonstration is as close as your nearest West office. Just mail the coupon!



West Disinfecting Company
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Dept. 7

- ☐ Please send a copy of "The Proper Care of Floors"
☐ Please have a West representative bring me the booklet . . . and show me the visual comparison kit

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How **TENNANT** machines help you...

save the most manhours on ALL floor-cleaning jobs

For removing
HEAVY GRIME
in one fast
operation

TENNANT Industrial Floor Machines

Faster than a crew of men, one of these powerful machines pulverizes tough, grease-caked grime... picks it up in one operation. Saves hours of costly hand work. Leaves floor ready for immediate traffic.

REQUIRES ONLY 1 MAN. As your operator guides machine over floor it cleans a path 16" wide... removes up to 20 lbs. or more of dirt per minute. Has ample power for tough jobs.

CUTS DIRT LOOSE, PICKS IT UP. Revolving cylinder instantly shears away hard-packed grease, chips, paint... hurls it into hopper; vacuum controls dust. Does entire job DRY; no chemicals or water; no need to rope off areas.

SMOOTHS AND LEVELS SURFACE. Planing action of cylindrical wire brush or Revo-tool levels humps... leaves ideal surface for trucking; will not dig or gouge. Available in 3 standard sizes: 16", 12" and 8". Specify gas or electric model.

For fast
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**POWER
SWEEPING**

TENNANT Power Sweepers

Used by 15 of the top 20 firms* in the U. S. (and by hundreds of others), Tennant Power Sweepers have a well-earned record for long, dependable service... plus outstanding cost-saving performance. We know of no maintenance equipment that pays for itself so promptly.

SWEEPS AN ACRE AN HOUR. With a Tennant Model 36 Sweeper one man sweeps up to 54,000 sq. ft. per hour (open areas)... at speeds to 6 M.P.H. Cleans path 36" wide (48" wide if side brush is also used).

DOES EXTRA-CLEAN JOB. Brush revolves inside vacuum-equipped compartment... whisks up litter and debris; even cleans many cracks and crevices; helps cut costs.

EASY TO USE, TURNS "ON A DIME". With its rear-wheel steering, reversing clutch, etc., the Model 36 is ideal for busy plants. Easier to drive than a car! Gas or battery models also in 24" unit (see photo).

*Top 20 non-financial firms ("Business Week", 5-12-51)

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CREATORS OF THE TENNANT SYSTEM OF FLOOR MAINTENANCE—MANUFACTURERS OF EQUIPMENT AND MATERIALS FOR MAINTENANCE OF FLOORS, DECKS, ROOFS, HIGHWAYS



SEVERAL MEN WITH SCRAPERS, working at top speed, couldn't do the job of this one man—cleaning shop floors with a Tennant "K" Floor Machine. Removes heaviest grime in 1 fast operation, cleaning path 16" wide. Instantly provides clean, dry, level surface. Gas or electric; complete accessories for all jobs.

MODEL "J" cleans 12" path; can be used in congested areas.



IT PAYS FOR ITSELF FAST! The tremendous manhour-savings made by Tennant Model 36 Power Sweepers put it in a class by itself. One big U.S. firm has 69 of them... and one unit paid for itself in 22 days. (Case histories on request.)

Machine has capacity of 54,000 sq. ft. per hour, cleans a 36" path, has combined brush-and-vacuum system for extra clean work. Has 7.3 h.p. engine, drives like a car. Built for heavy-duty work. Now available in GASOLINE and BATTERY TYPE models.

NEW Battery-type Model 36 sweeping warehouse floors.



MODEL "24" sweeps narrow aisles; has big-sweeper capacity.

Safety Suggestion: Tear Out and File for Ready Reference

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Scott Air-Pak delivers cool, confi-
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SEE THE SCOTT AIR-PAK AND SCOTT DEMAND INHALATOR ON
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BOOTH NO. 21

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ANTI-SLIP FLOOR
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REDUCES FALLS

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is not a wax

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is "everything" in one product

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On the job
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in after-hours
styles!



Here are four smart reasons why men willingly wear Thom McAn safety shoes. These are the popular street styles they're proud to wear... with the built-in protection they need for rugged jobs.

Men are already sold on the name Thom McAn. They've learned to expect good looks, all-day comfort and extra wearability from their regular Thom McAns, so they know they'll get these features in Thom McAn safety shoes, too.

You'll be doing them a favor—and helping to keep safety records safe at the same time—when you make Thom McAn safety shoes available to your men.

Don't forget to see us at Booth #118 at the National Safety Show.

S-4250

Medium weight brown dress oxford with medallion toe. Leather sole. Rubber heel.



S-4380

Comfortable blucher in rich brown. Fully leather lined. New "Winguard 400" steel safety toe box. Extra heavy leather sole. Rubber heel.



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Rich cordovan color, moccasin type. New "Winguard 400" steel safety toe box with rugged leather sole and rubber heel.



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Dress oxford in mahogany brown. Fully leather lined. New "Winguard 400" steel safety toe box. Extra heavy leather sole. Rubber heel.



SOLD 2 WAYS

1. Stocked for your men in Thom McAn stores.
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SAFETY SHOES

A DIVISION OF MELVILLE SHOE CORPORATION



FIRST CHOICE FOR

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FERROX

Just open the can and trowel it on. Provides non-slip grip . . . resists oil, chemicals and weather conditions. Excellent for machine areas and uneven surfaces. Ferrox gives economical coverage, 40 square feet to gallon . . . costs 1/3 as much as fabric-backed floor coverings.



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Fera-Mat covers large floor areas in a hurry. It peels like adhesive tape, goes down fast and *stays safe!* Long life is assured through resin bonding agent and diamond-hard mineral granules. Fera-Mat's extra traction minimizes lost motion and fatigue.



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For the toughest jobs, architects, safety engineers and building owners turn to Feralun. These durable treads, plates and thresholds, made of cast iron matrix, have a diamond-hard abrasive in the walking surface. Feralun is low in overall cost because it lasts the life of the building.

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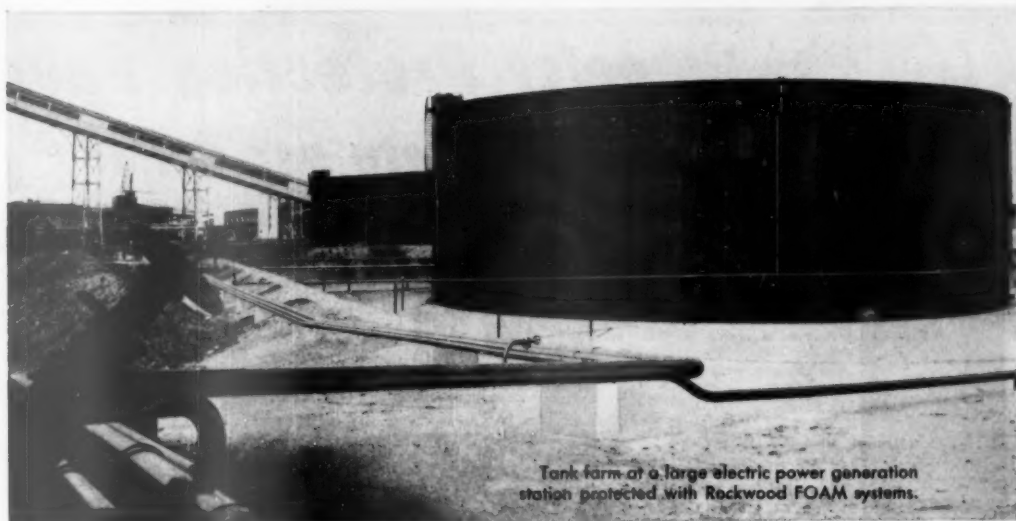
FOR AMERICAN ABRASIVE'S FACT FOLDER ON
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**AMERICAN
ABRASIVE**

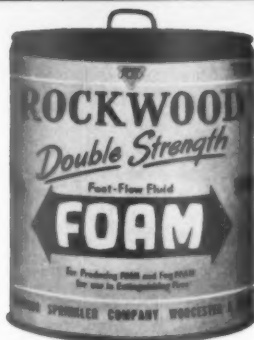
Safety Floorings

AB 108

AMERICAN ABRASIVE METALS CO., 460 COIT ST., IRVINGTON 11, N. J.



Tank farm at a large electric power generation station protected with Rockwood FOAM systems.



New Lightweight type FFF Rockwood FogFOAM Nozzle. Discharges FogFOAM — solid FOAM stream or High Velocity WaterFOG. →



Rockwood FOAM Eductor can be attached between discharge of fire truck and hose line or between hydrant and hose line or between two lengths of hose.



Rockwood Lightweight "FF" Extension unit with SG-60 WaterFOG Nozzle attached. Discharges FogFOAM, solid FOAM stream, high velocity WaterFOG, solid stream or low velocity WaterFOG.

Better FIRE PROTECTION begins with ROCKWOOD PRODUCTS

You'll be surprised at all the places in your refinery — plant or city where Rockwood fire fighting products can help you cut fire losses.

Year after year Rockwood engineers stride ahead giving fire fighters spectacular new developments to combat serious fires in highly volatile flammable liquids and materials. One of the most recent developments has been the new Rockwood Double strength FOAM liquid. This new type extinguishing agent is a fast-flowing FOAM that covers burning surfaces faster — completely seals off combustible vapors — flows freely at sub-zero temperatures (-15°F) and is easier for firemen to handle. It will cling to smooth, vertical or curved surfaces and has many advantages over ordinary FOAM liquids or powder foams.

New Rockwood proportioning equipment, FOAM and FogFOAM Nozzles enables fire fighters to apply Rockwood FOAM Liquid and wetting agent more efficiently to most fires.

Ask your fire equipment distributor, today for complete data and prices on Rockwood's growing family of modern fire fighting products.

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Wheeler Protection Pays more safety per dollar



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Bib, split-leg, waist, and V-types. All sizes available in U.G. asbestos, flame-proofed duck, fiber-glass, chrome leather, and perma-proof cloth.



ARM PROTECTORS

Chrome leather, or wool. Plain or steel studded leather reinforcements. Fastens on arm with three adjustable straps, or with zippers.



ASBESTOS FIREMEN

U.G. light basket weave asbestos. Six styles offered in one, three, and five piece suits. Each style neatly packed in handy metal carrying case. Used for fighting fires, fire rescue work, and emergency repairs.



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U.G. asbestos, flame-proofed duck and jean cloth, fiber-glass, perma-proof cloth, and 100% reprocessed wool. 6' x 6' standard size, packed in carrying case. Other sizes cut to order. Grommets supplied on curtains as specified.



CAPES AND SLEEVES

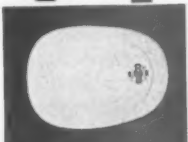
With or without bibs. Made in chrome leather for Welder's. Also available in U.G. heavy basket weave asbestos. Small, medium, and large sizes.



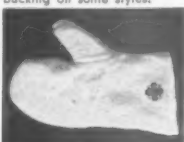
GLOVES U.G. herringbone weave asbestos. 11", 14", & 23" lengths. Lined or unlined; plain or lea. rein.



GLOVES Chrome, horse split or grain, and carpincho leather. 11" & 14" lengths. Lined or unlined; plain or steel studded lea. rein.



HAND PROTECTORS With wrist slot, or thumb-type. Chrome lea. with plain or steel studded rein. Asb. backing on some styles.



MITTENS Reg. thumb, rev. thumb, or one-finger styles. U.G. herr. asb. 11", 14", & 23" lengths. Lined or unlined; plain or lea. rein. Double, & triple thick asb. mittens also available.

CLOTHING

U.G. asbestos in tropic-weight herr., light basket, heavy basket, and herr. weaves; flame-proofed duck and jean cloth; chrome lea., perma-proof cloth, and wool. Coats 30", 44", and 50" lengths, cut to chest size, with "free-swing" raglan sleeves. Pants to match, cut to waist size.



HELMETS

U.G. light basket weave asbestos, with wire, fiber, or "hard boiled" head frames, all having adjustable, padded head bands. Screened, and pyrex glass vision pieces; for head, neck and shoulder protection. Large selection of styles featuring exclusive Wheeler design.



LEGGINGS

U.G. asbestos, flame-proofed duck, or chrome leather. Available in either Patented Leg-Safe style (as shown), or Spring Knee style. On and off in a jiffy! Half Leggings, and Hip Leggings, also obtainable.



SLEEVES

U.G. asbestos, flame-proofed duck, fiber-glass, chrome leather, and perma-proof cloth. 12", 18", and 24" lengths.



SPATS

U.G. asbestos, flame-proofed duck, and chrome leather. Have adjustable ankle and instep straps.



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Write for our new Catalog No G98
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THERE'S *Safety* IN THESE NUMBERS ...

... **STYLE AND COMFORT, TOO!**

A FEW OF THE MORE POPULAR MODELS SHOWN HERE

When you stock Iron Age safety shoes your workers gain both foot protection and foot comfort. Further, *you gain* greater coverage through their eye-appealing styling that breaks down sales resistance to the safety shoe idea. You can offer your employees no better made steel toe safety shoes; none that will wear longer. And on the foot, Iron Age shoes always feel as good as they look. The cost is no more than ordinary safety shoes, so why not act today? Ask your Iron Age representative to survey your operations. He will gladly recommend the stock order that will best serve your safety program; the styles that will sell best to those who wear them.

**New WOMEN'S
SAFETY OXFORD**

No. 603

Sizes 4-10 Widths A-D

This smartly styled moccasin oxford is just what your women workers want. It's built around a new comfort last, has soft, dressy brown leather uppers, a long-wearing leather-plus sole.



◆ No. 614

Sizes 5-12 Widths A-E

A high style man's moccasin pattern with wave stamp and bold decorative stitching. The color is rich chestnut brown.



◆ No. 921

Sizes 5-14
Widths A-EEE

One of many Softopedic shoes. A man's brown leather, lightweight, drapery and comfortable.



◆ No. 637

Sizes 6-12 Widths B-E

A 10" high engineer's boot with Neo-Cord sole and bent brass nails. Has steel toe, steel shank and shock-retaining heel.



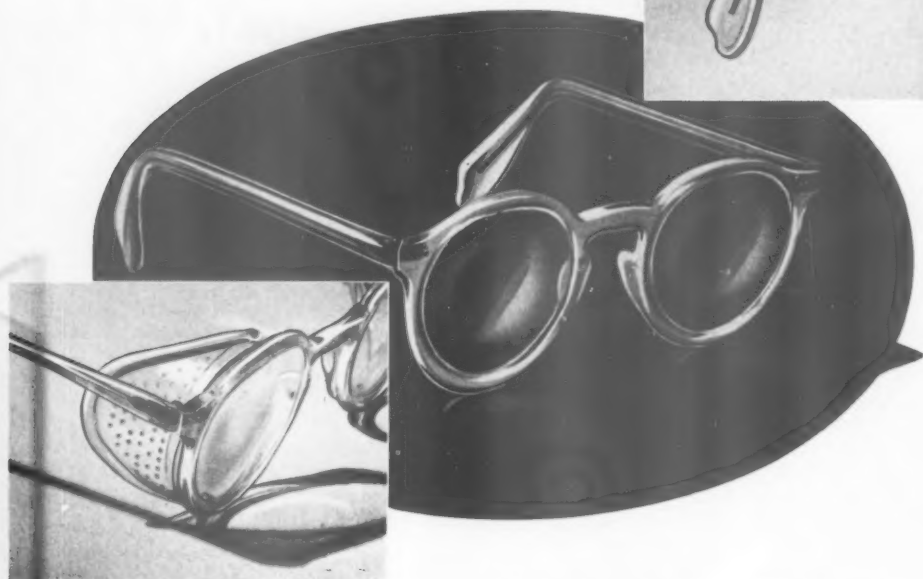
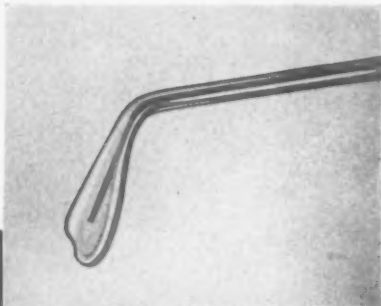
The Safety Shoe
for Industrial America

Iron Age DIVISION

H. CHILDS & CO., INC.

PITTSBURGH 23, PA.

the *Newest Thing* in EYE PROTECTION



other Kimball Safety Products

EYE PROTECTION:

Spectacle Goggles, Welding Goggles, Composition Goggles, Sideshields.

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GLOVES: Welder's, Asbestos, Steel Stitched. MITTENS: Welder's, Asbestos, Steel Stitched.

BODY PROTECTION:

CLOTHING: Wool, Flame-Proofed Cotton. LEGGINGS and SPATS: Leather, Asbestos, Flame-Proofed Cotton.

APRONS:

Leather, Asbestos, Flame-Proofed Cotton.

The new Kimball AC-2-A Safety Goggle with flesh-colored cellulose acetate butyrate frames having a wide skull temple with flared tip. Sturdy, neat, light-weight and comfortable, these new Kimball Safety Goggles hold their shape and are made of slow-burning material for added safety. A choice of either skull bow or riding bow temple.

Equipped with 6.00 Dioptre curved lenses, either clear or Kim tinted. Prescription ground if desired. Made in three lens sizes—40 x 43, 42 x 45, or 45 x 48, and five nose bridge widths—18, 20, 22, 24 and 26.

Also available with safety side shields in Model AC-23-A.

Kimball

**SAFETY PRODUCTS
COMPANY**

9310 WADE PARK AVENUE
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BOOTH NO. 140 - STEVENS HOTEL

DOCKSON PROTECTION Saves You Money!

DOCKSON Goggles, Face Shields and Helmets are "Built for Better Service" and GREATER ECONOMY in three ways:

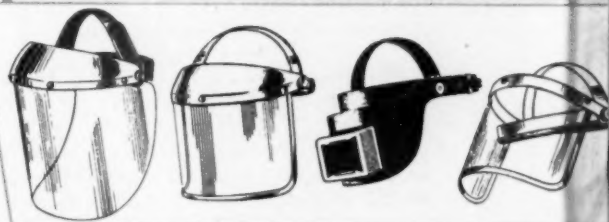
1. **COMFORT** Your operators will wear Dockson equipment (and save you costly injuries) because it minimizes fatigue and discomfort.
2. **PROTECTION** Dockson equipment is engineered to the hazard and the job. Visibility, stability and strength, all to the security-plus degree, have been built into this up-to-the-minute protection to save injury costs.
3. **DURABILITY** Save replacement costs with DOCKSON equipment. Materials that stand the gaff longer, assemblies that operate dependably longer, all extend the hours of better service

THERE IS A DOCKSON DISTRIBUTOR NEAR YOU — NAME ON REQUEST.

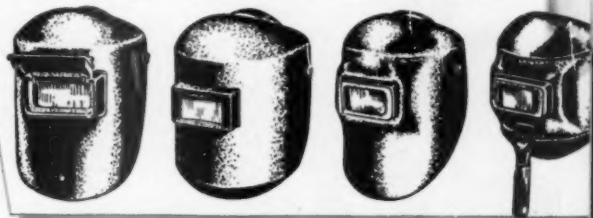
Write us today for complete catalog of Dockson Head and Eye Protection.



GOGGLES of the finest construction in specific models for all hazards: sparks, flying particles, dust, chemical splash, intense glare, injurious infra-red or ultra-violet rays . . . each Built for Better Service.



FACE SHIELDS in a full range of models for specific or general use. Each provides just the right coverage and construction for a good margin of safety with the lightest weight.



HELMETS and **HAND SHIELDS** in specific models meet any requirement for work or inspection. Tough, lasting construction minimizes weight, increases convenience and assures full protection.

Dockson

CORPORATION

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PAX FAN MAIL

Few skin cleansers have received such wide spontaneous user acceptance—letters asking about PAX-LANO-SAV* HEAVY DUTY come from all parts of the United States, some foreign countries and from all classes of people and industries. The letter reproduced below is typical of those received daily.

July 11, 1951

G. H. Packwood Mfg. Co.,
1545 Tower Grove Ave.,
St. Louis (10) Mo., U. S. A.

Att: Sales Dept.

Gentlemen:

As an electrician working in many states on big industrial jobs I have had many occasions to use your PAX-LANO-SAV HEAVY DUTY Granulated Hand Cleaner. Many of my local No. 3, New York, International Brotherhood of Electrical Workers, also have used it. We all agree it is the best hand cleaner we have ever used.

However we have been unable to buy it in any stores here.

Would you please advise me where in Brooklyn or New York that we might be able to buy the 5-pound packages at retail.

Very truly yours,

(Signed) Robert J. Chisholm



The Pax trademark symbolizes a deep-rooted tradition of superlative quality maintained through a quarter century of continuous research and development.

The Committee on Cosmetics of the American Medical Association has accepted PAX-LANO-SAV* Heavy Duty Granulated Skin Cleanser for inclusion in its list of accepted products, and the Committee has granted permission to use its official Seal of Acceptance in accordance with the "Decisions of General Interest of the Official Rules."



G. H. PACKWOOD MANUFACTURING CO.
1545-55 TOWER GROVE AVE. • ST. LOUIS 10, MO.

Manufacturing Chemists To Industry
**Granulated Skin Cleansers, Skin Cleansing Creams,
Degreasers and Detergent Compounds**

*Trademark of G. H. Packwood Mfg. Co.

HERC-ALLOY

SLING CHAINS

**None better... after 20 years
still America's First and Safest**

Men who buy and use sling chains are influenced only by facts gained through experience. HERC-ALLOY Sling Chain preference by Safety Directors and Production Executives has been built up over the years not by what we claim, but by what HERC-ALLOY has done on the job.

To know more about HERC-ALLOY Sling Chains write for Data Book No. 3 which contains useful selection and application information.



COLUMBUS McKINNON CHAIN CORPORATION

(Affiliated with Chisholm-Moore Hoist Corp.)

GENERAL OFFICES AND FACTORIES: TONAWANDA, N. Y.

District Offices: New York • Chicago • Cleveland

Other Factories at: Angola, N. Y., Dixon, Ill., St. Catharines, Ont., Can., and Johannesburg, South Africa.



SUREFOOTED as a fly (*almost*)

Each of the four soles shown, will REDUCE ACCIDENTS caused by slipping, and give extra long wear. Nearly all safety and work shoe manufacturers supply footwear with these soles.

See us in Chicago
Oct. 8th to Oct. 12th
in Booth No. 120



Mr. SAFETY ENGINEER

Will you assist in a research program to obtain data on the proper sole to wear on a particular job? If so, let us know of any condition that is wrecking shoe soles or where footing is hazardous. We will cooperate with you, at no cost to your company, in determining what type of sole will be the safest and wear the longest.



NEO-CORD

A fine cord and neoprene sole that is resistant to oil, grease, gasoline, acids, caustics and heat. Cord construction gives NEO-CORDS a high non-slip efficiency for the life of the sole.



NEO-CORK

An outstanding cork and neoprene sole that gives long non-slip wear. NEO-CORKS resist gasoline, oil, grease, acids and caustics. They won't pick up metal chips, are waterproof and cushion the feet.



GRO-CORK

The finest cork and rubber sole. They are lightweight, waterproof and very slip-resistant. GRO-CORK soles won't pick up metal chips, they protect the feet from heat or cold, and are soft to walk on.



GRO-CORD

This remarkable sole, with its cord-on-end construction, affords non-slip footing and extra long wear. GRO-CORD soles should not be worn where grease, oil or gasoline saturates the footing.

GRO-CORD RUBBER CO., Lima, Ohio

Canadian Plant

GRO-CORD RUBBER CO. of CANADA LTD., Tillsonburg, Ontario

EVERYTHING
BULLARD
IN SAFETY

Safety Buyer's Guide

...for Greatest
Personal Protection
with Comfort



Hard Boiled Hat

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BULLARD SAFETY BELTS

Famous Morenci light weight design with extra safety margin. Continuous strand, super-twist webbing. No belt holes or grommets. Snub buckle. Adjustable keepers. Design adapted to belts for mining, construction, marine, petroleum and general industrial use; also in harness and saddle types. New brochure available.



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Air supplied or respirator types. Feather-weight, tough, translucent material. Easy to clean. Full-vision, impact-resistant plastic face pieces are quickly replaceable. Airline Hood has non-fogging, no draft features; Cal. Div. Ind. Safety approved. Respirator hoods incorporate U. S. B. M. approved respirators. Other hoods approved for shot and sand-blasting; Acid Hood for safe acid handling.

Write for circular.

FIRST AID KITS

Cylindrical kit ideal for use indoors or out; mount on trucks, boats, poles, walls—wherever first aid kits are required. Compact, waterproof. Contains fabric Roll-up, complete with Unit Packets of first aid materials. Other kits include full line of weatherproof and bulk package kits, Pocket Packet and Combination Belt Kits.



Wouldn't you like to receive regularly the pocket-size publication, "What's New in Safety"? It gives highlights of new safety products. Just say "add my name to your mailing list."

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Visit
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On display,
seven
standard
permanent,
molded colors
in glass
HARD
BOILED
hats and
caps!
No price
increase.

a **GLASS** eye
is no bargain
at **ANY** price!



"An eye for an eye" is a poor exchange. Especially if you do the trading, and give one of your own for a glass imitation.

The foregoing is reprinted from another of the graphic series of educational pieces in poster and pamphlet form designed by Bausch & Lomb to help sell your workers on a *desire to use* safety glasses.

Let this material help you with your present eye safety program. It's part of the *total* service offered by this pioneer in industrial eyewear.

1 SELL EYE SAFETY TO EMPLOYEES

Ask your distributor's representative to show you the kit of posters, pay envelope inserts, PA system scripts and other material that sells workers forcefully on *desire to use* proper safety eyewear.

2 SAFETY GLASSES FOR EACH JOB

A complete range of Bausch & Lomb safety eyewear, engineered to meet the most rigid

tests for each job classification in your plant.

3 PROTECTION PLUS CORRECTION

For at least 50% of your workers prescription lenses are necessary to working efficiency as well as to safety. Your B&L distributor offers prompt prescription service on all types of industrial eyewear.

Write Bausch & Lomb Optical Company, 681-10 St. Paul St., Rochester 2, New York.



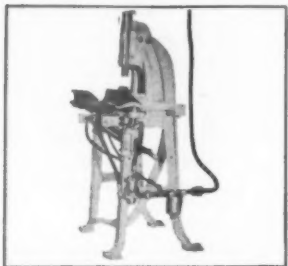
BAUSCH & LOMB

Safety Eyewear

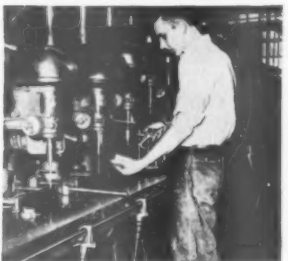
Airways to Greater Safety via Schrader®



Air Ejection Sets—can increase safety of hand fed machines 50%. The combination of Schrader Air Ejection Sets and Schrader Power Press Controls can make the machine practically foolproof.



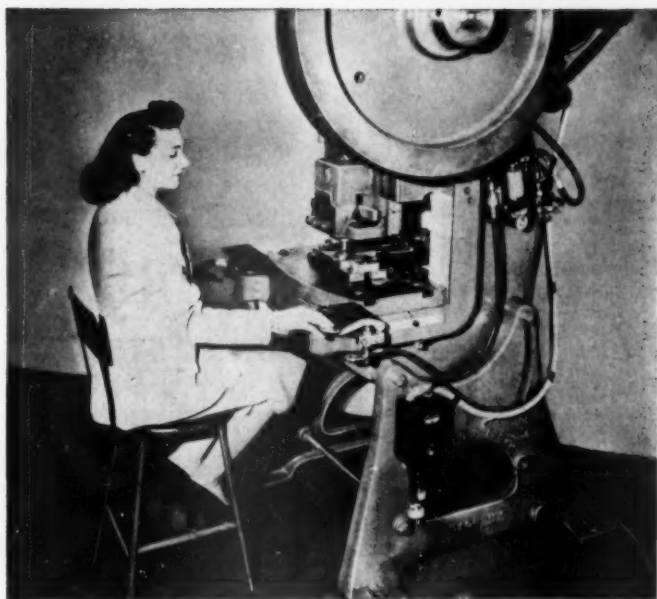
Kick Press Controls—eliminate fatigue by substituting more efficient air power for foot power. There is a Schrader pneumatic control for hand operation, foot operation or both.



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Air Cylinders • Operating Valves •
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Sets • Blow Guns • Air Line
Couplers • Air Hose & Fittings •
Hose Reels • Pressure Regulators &
Oilers • Air Strainers • Hydraulic
Gauges • Uniflare Tube Fittings

Schrader
PRODUCTS
CONTROL THE AIR



Keep hands out of danger zone with this **TWO HAND** press control

Control becomes inoperative when either hand operating valve is tied down

Here is a power press control that is definitely a two-hand device. A special cutout valve eliminates the possibility of tying down either hand operating valve to obtain one-hand operation.

After the work is placed in the machine the operator must depress both hand operating levers at the same time for the machine to operate. This means that the hands, both of them, must move out of the danger zone in order to operate the levers.

No longer is it necessary to resort to

mechanical monstrosities to make power press operation safer. And with the Schrader Control no effort is necessary to operate the levers. A light touch does the work.

Wherever there is a power press, there is an opportunity to increase safety by installing a Schrader Control.

Ask us to help you determine what will best fit your needs. Send us a letter outlining your particular installation requirement, your idea, or fill out the coupon below.

Variations of this control can be applied to most any type machine for greater safety, and increased production.

Mail this Coupon Today

A. SCHRADER'S SON
Division of Scovill Manufacturing Company, Incorporated
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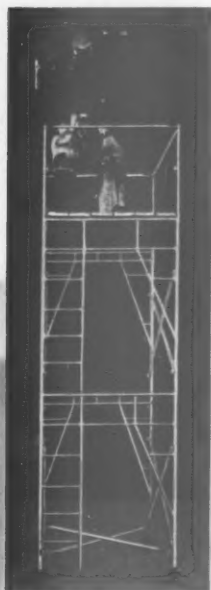
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Safe Footing - at Every Job Level!

with "TROUBLE SAVER" SECTIONAL STEEL ROLLING SCAFFOLDS



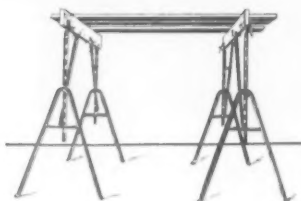
"Trouble Saver" makes ideal rolling scaffolds for plant maintenance work. At left is a Sectional Rolling Scaffold erected from 5'-wide ladder type frames. At right, a 24"-wide ladder scaffold. Extension bases, 3', 4' or 5' wide are available for ladder scaffolds, when working at greater heights.

1. **STRONG, SAFE!** "Trouble Saver" saves you the money that faulty scaffolding costs in accidents.
2. **QUICKLY ERECTED!** Prefabricated—all parts are interchangeable. No time is lost in fitting parts.
3. **EASILY DISMANTLES!** "Trouble Saver" reduces excessive man hours required to take down old-style scaffolding.
4. **LIGHT, COMPACT!** Storage is easy. "Trouble Saver" requires less space than bulky, out-dated scaffolding.
5. **LONG LASTING!** "Trouble Saver" components may be used indefinitely and save the cost of new scaffolding material on every job.

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NATIONAL SAFETY CONGRESS
HOTEL STEVENS, CHICAGO
OCTOBER 8 to 12
BOOTH 97

ADJUSTABLE STEEL TRESTLES

- Strong!
- Safe!
- Economical!



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quickly
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"Trouble Saver"
Steel Trestle



Manufacturers of
"Trouble Savers" since 1912

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MECHANIZE

4 Scrubbing Operations into 1

with a **COMBINATION SCRUBBER-VAC!**

Here's a timely answer to the need for conserving manpower and reducing labor costs—a *single cleaning unit that completely mechanizes scrubbing*. A *Combination Scrubber-Vac* applies the cleanser, scrubs, rinses if required, and picks up (damp-dries the floor)—*all in one operation!* Maintenance men like this *four-in-one* feature; also the fact that the machine is *self-propelled*... has a *positive clutch*... new type of water valve that *assures* uniform flow of water... and powerful (quiet) vac for efficient pick-up.

The *Scrubber-Vac* shown at right, Model 213P, is designed for heavy duty scrubbing of large-area floors. This machine has a 26-inch brush spread, and cleans up to 8,750 sq. ft. per hour! (Powder dispenser is optional.) *Finnell* makes *Scrubber-Vac* Machines in a full range of sizes—for small, vast, and intermediate operations. From this complete line, you can choose the size that's exactly right for your job (no need to *over-buy* or *under-buy*). It's also good to know that you can lease or purchase a *Scrubber-Vac*, and that there's a *Finnell* man nearby to help train your maintenance operators in the proper use of the machine and to make periodic check-ups.

For demonstration, consultation, or literature, phone or write nearest *Finnell Branch* or *Finnell System, Inc.*, 2210 East Street, Elkhart, Indiana. Branch Offices in all principal cities of the United States and Canada.

Applies cleanser,
scrubs, rinses,
and picks up—in
ONE operation!



Conserve Manpower with Completely Mechanized Scrubbing

FINNELL SYSTEM, INC.

Originators of Power Scrubbing and Polishing Machines



BRANCHES
IN ALL
PRINCIPAL
CITIES



**PUT YOUR
SAFETY MESSAGES
IN YOUR
EMPLOYEES' POCKETS!**

A Book Match Safety Campaign
does not begin and end at the
plant gates.

Your messages are constantly
on the job.

They are seen at work . . . at
home, away and at play.

When at the
National Safety Congress
be sure and stop at
booth 16 and get all
the facts. We'll be look-
ing forward to seeing you.

**BOOK MATCH ADVERTISING DEPT.
THE DIAMOND MATCH COMPANY
SPRINGFIELD, MASSACHUSETTS**



Dedicated to SAFEGUARDING INDUSTRY



DAVIS GAS MASKS

Precision made to meet the most rigorous on-the-job requirements. There is a Davis mask for every protection need—each specifically designed to afford maximum protection, comfort, performance.

Send for Bulletin No. 513

DAVIS Recording Thermocouple Type Recording COMBUSTIBLE GAS ALARM SYSTEM

A package unit for the continuous protection of processes, plants, personnel. New, more accurate principle of gas analysis. Improved zero stability, "Fail-Safe" construction.

Write for Bulletin No. 11-86



A complete line of gas analyzers available for every problem.

DAVIS PORTABLE VAPOTESTER

Quick, dependable on-the-job analysis of combustible gases and vapors in both combustible and toxic range. Approved by Associated Factory Mutual Fire Insurance Companies and listed by Underwriters' Laboratories.



Model M-1

Send for Bulletin No. 1144 (Toxic Range)
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DAVIS AMERICAINE SPRAY BURN KIT

The kit that has EVERYTHING for the relief of pain from a burn. Features Americaine, amazing pain killer, in liquid and ointment form... and a Davis-engineered rechargeable atomizer-sprayer to apply liquid Americaine. All necessary first aid supplies for burns are included in the metal carrying case kit.

Write for
Bulletin No. 320



See the Complete Davis Line at the SAFETY EXPOSITION

FIRST AID
Unit Dressing (D Carton) System
Tannic Acid Jelly for Burns
(Tannoid)
Cotton-lined Gauze Compress
Self Adhering Gauze Compress
Bandage

GAS PROTECTION
Light colored rubber compound
for masks
Insulators and Resuscitators
with removable breathing
bag, cylinder and pressure
reducing valve

Neoprene coated airline hose
Haze Masks
GAS ANALYSIS
O-100% gas analyzer
Gas Alarm Systems
Portable and Toxic and
Combustible gas indicators

BOOTHS 75-76

HOTEL STEVENS
CHICAGO, ILL.
OCTOBER 8 to 12



DAVIS EMERGENCY EQUIPMENT CO., INC.
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BRECK pH7 PROTECTIVE CREAM protects the hands against harsh materials such as cutting compounds, printer's ink, lime, paint and tar. Easily applied, it can be removed with Breck Hand Cleaner or soap and water.

BRECK WATER RESISTANT CREAM guards against the action of water and water solutions. It forms a stable protective film over the skin and is effective for three or four hours.

BRECK HAND CLEANER helps to eliminate the use of harsh, gritty hand cleaners, turpentine and petroleum solvents. Because it is mild, yet effective Breck Hand Cleaner leaves the hands clean and soft.



BRECK WORK CREAM is used after exposure to degreasing materials. It substitutes fatty materials for the natural skin oils keeping hands soft and pliable.

A Breck Industrial Preparations Booklet is available upon request.

JOHN H. BRECK, INC. • MANUFACTURING CHEMISTS • SPRINGFIELD 1, MASSACHUSETTS
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**SUPER SAFE
UNDER
WET SHOES**

DAZZLING SELF-LUSTRE

SUPER SAFE, RAIN OR SHINE

SAFE TO WALK ON, SAFE FOR FLOORS

CETOX

the **Hydraoxated carnauba**
floor dressing that's extra safe all year 'round!



CETOX makes all floors super safe—especially throughout year's 30% inclement weather when the risk of slips and falls is greatest.

Super safe—even under wet shoes

Normally, water underfoot acts as a lubricant. CETOX is extra safe under spilled or tracked in water. You simply won't slip, because

CETOX contains Carnauba with the slip hydraoxated out of it. No silicas, or abrasives added. *It's hydraoxated super safe!*

Beautiful and safe

Self lustre CETOX makes floors dazzling bright. It is a wet mop proof, tough wearing, dirt resisting, protective floor dressing that may readily be removed with the use of a mild detergent. In every way, CETOX is superior. For safety sake . . . put CETOX on your floors.

Write for complete information and
name of your nearest distributor.



Listed by
**UNDERWRITERS'
LABORATORIES, INC.**
as anti-slip floor
treatment material.

Tested-approved by
**YORK RESEARCH
CORPORATION**
for American Hotel
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Chemical Service of Baltimore

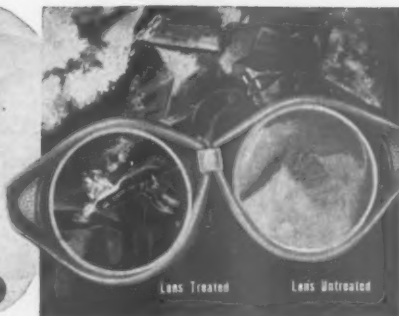
HOWARD & WEST STREETS • BALTIMORE 30, MARYLAND

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Booth No. 2, Congress Hotel, 1951 National Safety Congress

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Anti-Fogging LIQUID



Lens Treated

Lens Untreated



Stops fogging and steaming of eyeglasses and goggles—glass or plastic. Easily applied, K-LENS-M Anti-Fogging Liquid forms an invisible coating that resists formation of fog or moisture on lens surfaces . . . brings clear vision to eyeglass wearers under severe conditions of hot steaming vapors, freezing temperatures, humid summer heat, or body perspiration . . . overcomes hazards of fogged goggles . . . increases worker efficiency and safety.



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Visit Booth No. 58
National Safety Show

ANTI-FOGGING STATION
(Attaches Securely to Cabinet)

FINGERTIP SPRAY PUMP
(No Air Pressure Needed)

EASILY INSTALLED—SERVICED
(Locked In by Cabinet Door)

Make your own test—
Order a sample bottle of K-LENS-M Anti-Fogging
Liquid complete with spray pump, \$2.00 postpaid.

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Liquid Lens Cleaner
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Anti-Fogging Liquid
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Anti-Fogging Station

THE WILKINS CO.
INCORPORATED
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'PAC-KIT' FIRST AID

**MODERN UNIT TYPE
FIRST AID EQUIPMENT
FOR EVERY EMERGENCY**



Provides standard products each packed in individual cartons with illustrated First Aid Instructions. Electrically welded 20 gauge steel, dust and moistureproof cases provide complete protection of contents, give long service.

**No. 748 SNAKE BITE
SUCTION FIRST AID**



Easily operated with one hand. ANY-ONE can give effective first aid. KIT CONTAINS: Tourniquet, Lancet and Suction Syringe, with

- 1 Curved Rubber Suction Cup
- 1 Large Rubber Suction Cup
- 3 Iodine Applicators
- 3 Ammonia Inhalants
- 3 Adhesive Bandages

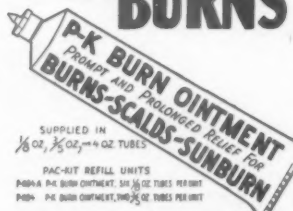
Wt. complete in metal case, 7 ozs.

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Write for descriptive literature and prices.

THE PAC-KIT COMPANY

**IMPROVED FIRST AID
FOR BURNS**



SUPPLIED IN
1/8 oz., 1/2 oz., 1 oz. TUBES

PAC-KIT REFILL UNITS
PAC-KIT 1/8 BURN OINTMENT, 341 1/8 OZ. TUBES PER UNIT
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**FIRE, ELECTRICAL, WELDING,
STEAM AND FRICTION BURNS.**

Scalds—Sunburn—Windburn
P-K BURN OINTMENT provides immediate and sustained relief. It is a soft Lanoline base cream with an effective analgesic. Liberal free sample on request.

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SAFETY
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MULTI-CLEAN
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LIQUID FLOOR
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ALL-PURPOSE
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PRODUCTS, INC.

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**The MULTI-CLEAN METHOD is a planned
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Proper floor care demands that floors be safe as well as clean. Slip hazard is reduced when floors are maintained by the Multi-Clean Method—and they stay light, attractive and sanitary with far less attention.

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SEND FOR FREE MAINTENANCE MANUAL



Multi-Clean has prepared a complete series of floor maintenance manuals answering every floor problem. Write today and name your type of floor—use the coupon below for a free copy of the manual pertaining to your floor.

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MULTI-CLEAN PRODUCTS, INC., Dept. NS-10
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Gentlemen: Please send a copy of your free maintenance manual for _____ floors (indicate type of floor).

Name _____

Address _____

City _____

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Bashlin's Linemen's Choice

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Semi-Floating Safety Tool Belt — 20 Styles — Full Range of Sizes. Stock.



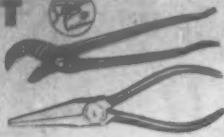
Tool Belt with or without holster with tape sling, hammer loop. Stock.



Clear Grip—Easo E Grip Plier Handles. 6" — 8" — 12" — 420 Pliers. Stock.

Tool Buckets

—Canvas, fiber top, leather bottom 15" — 16" Depth. Stock.



Chan-Mel-lock gripping tongs and groove pliers. Stock.

Vacuum Grip Pliers perfect balanced easy cutting. Stock.



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Chippewa Boot—6 to 11 and 12 with 16" top. With or without Padding. Stock.



Safety Straps—24 Styles Finest Leather. Bashlin Craftmanship. Stock.

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for old rags or combustible material. Underwriters approved.

From 6 to 25 gallons.

SAFETY CANS



for easy handling of flammable liquids. Underwriters labeled. In 1

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for sponging and cleaning with flammable liquids. In 1 quart, 1/2 gallon and 1 gallon sizes. Approved by Factory Mutuals.



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(#1727-S) — for safe inspection of storage or operating equipment . . . 15" or 30" extensions for lighting inaccessible areas. Underwriters approved.



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(#1717-S)—for use in group D, class 1 hazardous locations. Fully insulated. Underwriters Lab. approved.

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SAFETY HEADLIGHT



(#1904-S) — with belt clip for ease and padded headband for light. Fully flexible with 1,500 ft. beam. Leaves both hands free.

FOR EXTRA PROTECTION JUSTRITE SAFETY CONTAINERS AND LIGHTS

YOU—as the man directly responsible for the working safety of your personnel and equipment—are asked to consider the safety features of Justrite equipment. These products have been designed, constructed and tested to meet the highest standards of industries everywhere. Used for inspecting, cleaning or storing . . . Justrite Containers and Justrite Portable Lights discourage sparks or explosions—wherever flammable liquids, vapors, or gases are present.

Besides this safety factor, your decision to use Justrite equipment will prove sound because Justrite outperforms—and outlasts—all other similar equipment regardless of price.

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Prevent Static Electricity **EXPLOSIONS**

with **CONDOCOTE** coating
...SAVES THE EXPENSE OF NEW FLOORING

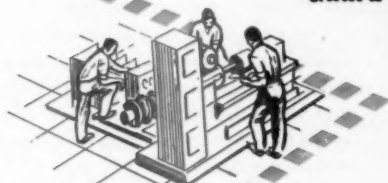


Hospitals need
CONDOCOTE

Make your floors safely *conductive* with CONDOCOTE coating. It overcomes danger from friction sparks that can wreck your building. Effective on nearly all types of flooring. Applied with a brush to approximately 1/16" thickness, this conductive composition dries to a smooth, long-wearing, seamless surface. Minimizes explosion hazards by dispersing static.

Complete the job with CONDOCOTE finish. Available in black, grey, green, red or brown. Certified by Underwriters' Laboratories and Electrical Testing Laboratories.

Guard Against the **HUMAN SPARKS**
that cause **EXPLOSIONS!**



Industry needs
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USE **NoSTAT**
GROUNDING DEVICE
FOR PERSONNEL

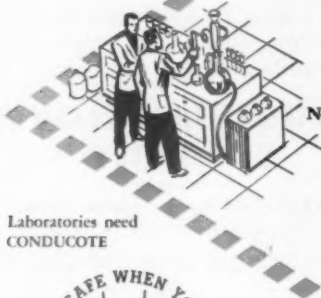


When your employees wear non-conductive shoes, they insulate themselves from conductive floors.

That means electric charges store up in their bodies. NoSTAT assures drainage of currents from body to conductive floor. The floor contact button is clamped on the arch of the shoe. It is connected by a bead-chain to a small metal plate worn around the leg in an elastic garter. Light, comfortable for men or women. Floor button fits any size shoe.

A heavy-duty NoSTAT also available for industry.

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Let us design a complete System of Safety Maintenance for your floors. It will save you money. For full information, write WALTER G. LEGGE CO., INC., 101 Park Ave., New York 17, N.Y. In Toronto—J. W. TURNER CO.

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Please send me detailed information on
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Firm _____
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City _____ Zone _____ State _____

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better

INDUSTRIAL Safeguards?



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14169

OPEN END FINGER GUARD

Eliminate minor, but costly, finger injuries by using Steel-Grip finger guards on burring, grinding, buffing, sanding, assembly, machine and punch press operations. Choice of materials. Sizes for men and women.
(U.S. Patents 2,351,906 and 2,461,872)



No.
40

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Tough chrome leather; open back for coolness. Also made steel reinforced. Many styles of leather and asbestos hand pads for every job.



No.
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Steel-Grip chrome leather gauntlet glove. Reinforced with steel ribbons over tough leather strips for maximum protection and wear on rough jobs. Also made with 2" band cuff and in reversible style.



No.
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Woven-Gard open end mitt. For lower temperature jobs where asbestos is not required. Highly oil absorbent. Resists cuts and abrasion. Complete line of Woven-Gard hand pads, arm guards, closed end mitts and aprons.



No.
347

Chrome leather wrap around legging. Easy on—easy off. Also manufactured in asbestos and flameproofed duck, as well as spring type design in all materials.



No.
492

Chrome leather welder's half jacket. Available in asbestos and flameproofed duck. Small, medium and large sizes. Extra large and jumbo on request. Complete line of welder's clothing, gloves and mittens.



No.
145-36

Chrome leather bib type apron. One-piece construction—no seams. Made in asbestos and flameproofed duck. Choice of lengths in all materials; made plain or steel reinforced. We also manufacture a complete line of waist type aprons.



No.
225-14

Asbestos glove. 14" length. Underwriter's 2½ lb. per sq. yd. asbestos with tough chrome leather reinforcement over entire palm, face of all fingers, around entire forefinger and thumb, well around small finger. Thumb seam entirely away from wearing zone. Full line of asbestos gloves and mittens, plain and leather reinforced.

Why do experienced, competent Safety Directors insist on Industrial's Steel-Grip Safeguards? Because the quality of Steel-Grip safety apparel assures proper protection, long economical wear and satisfied workmen.

Savings are not made at the expense of quality. Steel-Grip safety apparel is made from the correct weight, type and character of materials to protect the workman from the various hazards in industry.

The designing and manufacturing of Industrial's complete line of safety apparel is done by trained, skilled, upgraded craftsmen with this thought in mind . . . properly protect the workman at the lowest possible cost . . . not the cheapest.

Let us help you solve your safety problems with our more than 40 years of experience. Write for catalog. Describe your particular hazard. Try Industrial's Steel-Grip quality. You will learn why it pays to insist on the genuine.

INDUSTRIAL GLOVES COMPANY

A CORPORATION

1742 Garfield Street, Danville, Illinois
(In Canada: Safety Supply Co., Toronto)

Famous Industrial Safeguards Since 1910

To be Sure
of the Genuine

Steel-Grip
INDUSTRIAL
Safety Apparel



TRADE-MARK

*Demand this
Trademark*



it's **new**
it's Here!

HIL-TEX

**HILLYARD'S
Sensational Seal!**

**TAKES THE GUESS AND WORK OUT OF
RESILIENT FLOOR CARE!**

**The
Low Cost Protection
You've Been Wanting for Floors**

- one coat takes the place of many expensive finish coats.
- complete protection against water, dirt, grease.
- tremendous coverage (1,500 sq. ft. on some floors).
- brings to life colors which have become dull or faded. Won't soften or bleed colors.
- saves maintenance time.
- resists deterioration from spillage as alcohol, gasoline, mineral spirits, paraffin oil.
- is not harmed by acid or alkaline salts (present in certain floorings), staves off obsolescence of floor. Hil-Tex is highly resistant to ozone or fading action of Ultra Violet Light.

SAFETY MEN APPROVE IT... with an "anti-slip" coefficient of friction 50% greater than minimum insurance requirements (non-flammable) (U/L)

FLOORING CONTRACTORS RECOMMEND IT... contains no solvents, caustic, acids, other ingredients to injure or wear out sensitive surfaces.

MAINTENANCE MEN PRAISE IT... keeps floors in A-1 condition at all times with only half the work.

ARCHITECTS SPECIFY IT... for floors of greater beauty at a minimum cost to clients.

RUBBER FLOORING MANUFACTURERS ASSOCIATION ENDORSE IT...

*See for Yourself
what HIL-TEX can do!*

*On Your Staff
Not your payroll!*



HILLYARD CHEMICAL CO., St. Joseph, Mo.

At last! A seal to ease maintenance, prolong life of asphalt tile, rubber tile, all floors of a porous or semi-porous nature (including terrazzo and cement, with the exception of wood). HIL-TEX fills pores and hair cracks to provide a smooth even surface, preparing a bond between the floor and the surface treatment.

HIL-TEX has been thoroughly tested "ON THE FLOOR" IN HOSPITALS, SCHOOLS, INSTITUTIONS, INDUSTRIAL AND COMMERCIAL BUILDINGS!

MAIL THIS COUPON! FREE DEMONSTRATION

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☐ Please arrange for a FREE HIL-TEX demonstration on a..... floor.

☐ Send me **all** the facts about HIL-TEX.

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Institution.....

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Alloy Steel

CHAINS

DO MORE WORK, LAST LONGER,
COST LESS . . . THAN WROUGHT IRON TYPES



This Registration Ring bears the chain's serial number and safe working load. It's your assurance of thorough testing and inspection.



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Rush literature and prices on TM Alloy Steel Chains.

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Your chain problems are substantially reduced when you buy TM Alloy Steel Chain. Records prove this famous chain *outlasts* and *outperforms* wrought iron types . . . even under the toughest conditions. It's more economical too!

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S. G. TAYLOR CHAIN CO.

HAMMOND, INDIANA

TAYLOR MADE

A GREAT NAME IN

Chain

SINCE 1873

Use Protectoseal Safeguards ALL THROUGH the PLANT

FOR COMPLETE PROTECTION FROM FIRE AND EXPLOSION HAZARDS OF FLAMMABLE LIQUIDS

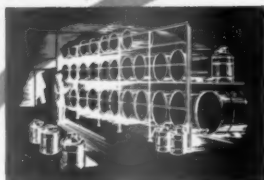
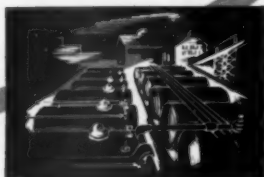
Your plant's fire and explosion protection is like a chain: it's only as good as the weakest link. That is why it is important to protect your entire plant, not just the department with the highest danger potential. No matter how you use, dispense or store flammable liquids, there is Protectoseal equipment to help you do it safely.

1 DANGER IN UNLOADING The escape of highly flammable vapors plus the threat of static electricity makes any fueling operation a constant hazard. Protectoseal Tank Car Fittings hold excessive vapor loss and resultant chance of explosion to a minimum. Compact, easy to handle, they fit all tank car dome openings.

Protectoseal Filling, Venting, and Sealing units safeguard and speed fueling. Some double for convenient rodding and sampling.

2 DANGER IN STORAGE YARD Volatility of flammables—atmospheric changes—changing tank pressures—and surrounding fire demand specific time-tested vents and fittings.

Protectoseal produces a broad line of vents, seals, and flame arresters for conservation, condensing, and non-condensing purposes. Each provides adequate protection under severe conditions.



3 DANGER IN STORE ROOM To safeguard the many hazards inherent in storing flammables, Protectoseal builds a complete line of fire-safe storage and dispensing equipment. If you have a special problem involving the safe handling of hazardous liquids, Protectoseal is ready to produce according to your requirements, should standard equipment not exactly meet your needs.

4 DANGER IN APPLICATION Throughout your plant Protectoseal products not only safeguard against danger, but they help increase production and lower costs, as well. Specially designed products, like the plunger can, automatic parts washer, bench can, oily waste can are all part of the great Protectoseal team that is your best defense against fire and explosion. Look to Protectoseal to safeguard every department... every operation.

Send for the free Self-Checking Chart—helpful aid in analyzing fire and explosion hazards by tracing movement of flammables through various operations and departments of plant.



The PROTECTOSEAL COMPANY



1928 SOUTH WESTERN AVENUE
CHICAGO 8, ILLINOIS

For Clear Safe Vision — Glass and Plastic

K-LENS-M

REG. U.S. PAT. OFF.

**ESSENTIAL
for
EYE SAFETY**



A necessity for effective safety-goggle programs, K-LENS-M Lens Cleaning Products have been standard equipment in leading industries, business offices and government installations for over eleven years. K-LENS-M Lens Cleaning and Anti-Fogging Stations encourage workers to wear goggles by eliminating dirt and fog which hamper vision. K-LENS-M costs little . . . actually pays for itself in increased efficiency, greater accuracy and fewer accidents.

Order test bottles of K-LENS-M Anti-Fogging Liquid and K-LENS-M Lens Cleaner, *large size*, complete with 2 spray pumps, for \$3.00 postpaid. Or write for free sample bottles.

GREATEST ADVANCE IN *eye safety*



**SINCE THE
INVENTION
OF GOGGLES**



The K-LENS-M Liquid Lens Cleaning and Anti-Fogging Station —the economical, efficient way to clear vision.

With K-LENS-M Lens Cleaning and Anti-Fogging Stations, your workers can have clear protected vision at all times. Whatever your plant conditions, employees won't have to remove goggles or shields because of dirt or fog—and risk loss of eyesight.

Modernize your eye safety program with

K-LENS-M Liquid Lens Cleaner for thorough cleaning of glass or plastic eyewear.

K-LENS-M Anti-Fogging Liquid forms an invisible coating on glass or plastic lenses that resists formation of fog or moisture.

K-LENS-M Dispenser Cabinet with Anti-Fogging Station is a complete lens cleaning unit; easy to install, use and service.

Contact your safety equipment supplier or write direct to

**The WILKINS Co.,
INCORPORATED**
Cortland 1, N. Y.

HILD

MAINTENANCE EQUIPMENT

for scrubbing and maintaining floors of all kinds and for scores of other dust control and clean-up jobs



SEE DEMONSTRATION
of HILD EQUIPMENT in
BOOTH 130
STEVENS HOTEL

HILD FLOOR Scrubbing Machines. Available in two types pictured here . . . with or without solution storage tank on handle. Easily interchangeable attachments to scrub, wax, polish, buff, sand, grind or steel-wool floors of all kinds. Six models with brush spreads from 11 to 19 inches.

**Only HILD
has the Patented
Shower-Feed Brush**

Diagram shows how scrubbing solution flows from tank on handle through accurately spaced holes penetrating the brush back between each row of bristles . . . for fast, thorough scrubbing with utmost economy. Brushes available with fibre or steel-wire bristles.



HILD Heavy Duty Vacuum . . . always ready for any clean-up job, wet or dry. Moisture in vacuum air-stream cannot damage specially designed HILD Bi-Pass motor. Fifteen easily interchangeable attachments. Two models . . . 10 or 40 gallon liquid capacity.



**HILD
System**
**MAINTENANCE
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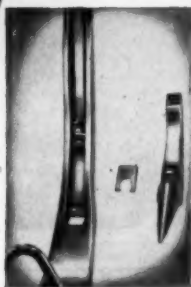
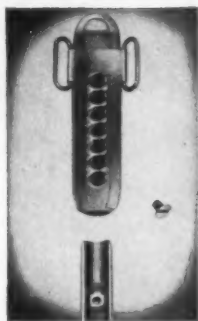
Write today for **FREE CIRCULARS**
HILD FLOOR MACHINE CO.
740 W. WASHINGTON BLVD.
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Miller CLIMBS TO TOP WITH NEW ADJUSTABLE CLIMBER

Booths 144-145
National Safety Congress



The new Miller Adjustable Climbers are equipped with an exclusive bolt-fastened adjustable shank, permitting easy adjustments in shank length, from 14" to 17 1/2".



This high carbon steel God's foot is easily and quickly removed from shank, but remains tight and sturdy when locked in place by an exclusive key device.

Free

At the National
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ask for Miller's
souvenir Plier
Grips.



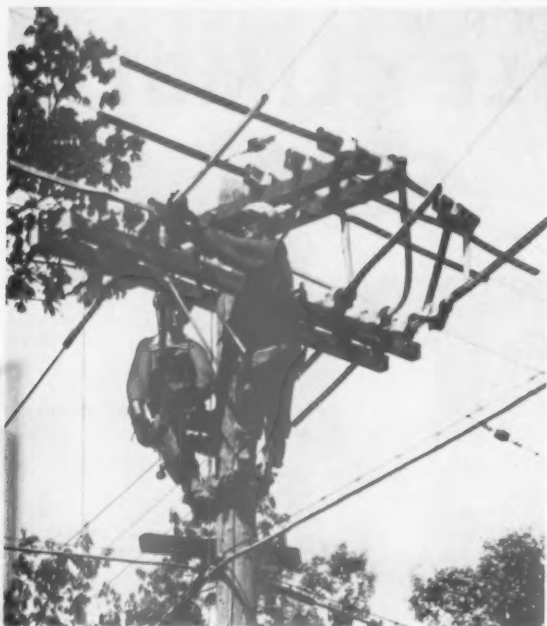
Miller - first in safety! Miller Safety Equipment is first with linemen, first with power companies, and first with industrialists. Miller Safety Equipment is designed by safety men for safety men, and is field tested. All industries, as well as power companies from coast to coast, not only standardize on Miller Equipment, but send in their special problems for Miller safety engineers to solve with new equipment.

If you want to maintain a better safety record, write, wire or call Miller today!

for SAFETY see Miller FIRST

Miller EQUIPMENT CO., INC.
FRANKLIN, PENNA.

SALISBURY'S LINEMEN'S RUBBER PROTECTIVE EQUIPMENT



MAKES SAFETY SURE

Cautioning linemen against carelessness is important, but not enough. It takes dependable protective devices used on every job near energized equipment, to make safety sure.

There is a Salisbury Rubber Protective Device for every electrical hazard, dependable, convenient to use, proven on the line. That's why it's "Salisbury For Safety" where utility men have a hot line job to do.

See Salisbury's products and new developments on display in Booth No. 90-91

PRODUCTS

Line Hose
Connector End Line Hose
Insulator Hoods
Blankets—3 Types
Snap-On Jackets
Blanket Canisters
Blanket Clamp Pins
Rubber Gloves
Glove Protectors
Rubber Cuff Protectors
Glove Liners
Glove Bags

Rubber Sleeves
Static Resisting Line Coats
Lineman's Rubber Boots
Lineman's Mats
P. B. Paint Pots
Insulating Stools
Tool Bags
Line Hose Bags
Switchboard Rubber Matting
Joint Bandages
Cable Bandages
Cable End Test Caps



W. H. SALISBURY & CO., INC.

401-21 No. Morgan Street Chicago, Illinois

NEW FENDALL Cup-Type GOGGLES

Offer Many Distinct Features and Advantages!



**FOG-FREE
VENTILATION**

Safety Tested—Safety Proved—Fendall cup-type goggles are the finest ever offered. Safety directors will be quick to recognize the many PLUS features. For example, cups are individually molded to fit both right and left eye areas perfectly... comfortably. Ventilated side shields circulate air

freely, yet banish foreign particles. Smooth, comfortable wide-bearing facial contact surfaces distribute weight evenly. Pressure-free fit forms a perfect seal against dangerous chips, etc. Available in Chipper, Welder, Dust and Splash, Transparent models. Investigate Fendall before you buy.

FENDALL COMPANY



4631 N. WESTERN AVE.
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Fendall FACE SHIELDS



More comfort, more strength, clear vision, absolute safety, all built into every Fendall Face Shield. You can't find better. Workers wear them willingly. Ask for a sample shield. No obligation.



**See The Complete
Fendall Line**

at the
National Safety Congress

BOOTH 33

Congress Hotel, Chicago

LOUISVILLE

Safe-Weight

ALUMINUM PRODUCTS

ALUMINUM LADDERS

A BRIGHT SPOT IN THE SAFETY WORLD

Here's that outstanding ladder line you've heard safety men talk about. Louisville products are designed for your heavy duty jobs and you get an extra measure of safety in their unique construction. Corrugated rungs are reinforced and then securely riveted to special extruded aluminum side rails producing equipment with a solid resistance to rung loosening or

twisting. Naturally there's no dry rot or splinters.

Louisville ladders will give you EXTRA years of service and can be a major factor in your plant safety program. We invite you to check the list of concerns who purchase our products.

You will find us at the Safety Congress.

LOUISVILLE METAL PRODUCTS CO., 1101 W. OAK ST., LOUISVILLE 10, KY.

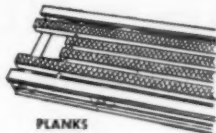
BOOTH 22 — CONGRESS



STRAIGHTS
EXTENSIONS
2 SECTION
3 SECTION



STEP
LADDERS



PLANKS
STAGES



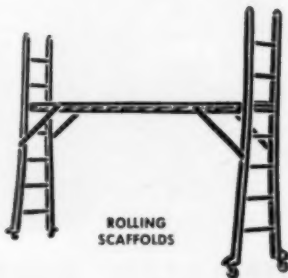
AJAX



SAFETY
PLATFORMS



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TRESTLES



ROLLING
SCAFFOLDS

install SIGHT SAVER CLEANING STATIONS

Dirty eyeglasses, like dim lights and dull tools, are dangerous and inefficient. Make clean glasses a habit in your plant and office by making it easy for your people to keep their glasses clean. Install Sight Saver Cleaning Stations. It will pay you to supply Sight Savers, the Dow Corning Silicone treated tissues with a world-wide reputation for being the best and the easiest way to clean, polish and protect eyeglasses and safety goggles. Let Sight Savers wipe away the best excuse men give for failing to wear safety glasses. Implement your eye safety program with Sight Saver Cleaning Stations.

Available from the leading
Safety Supply houses in
all principal cities.



DOW CORNING CORPORATION
MIDLAND SILICONES MICHIGAN

Be sure and visit Booth 23 at the Safety Exposition, Congress Hotel, Chicago

NEW BOOTH — NEW PRODUCTS — but the same old friends!

Welcome to

PULMOSAN
BOOTH No. 20



We'll be looking for you:

LARRY FOLEY, FLOY JENNINGS
FRANK RODAK and ED BURKE

Everything for Industrial Safety

PULMOSAN SAFETY EQUIPMENT CORPORATION

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AMERICA'S LARGEST LINE OF DRY CHEMICAL FIRE EQUIPMENT!

ONLY

Safety First

OFFERS...



**Fast Acting, Highly Effective Dry
Chemical Fire Extinguishers From**

2½ lbs. to 30 lbs.

A LEADER IN DESIGN AND ENGINEERING

Safety First, a leader in design and engineering of fire fighting equipment, still leads the field with the largest, most versatile line of fast-acting, highly effective Hand Portable Dry Chemical Fire Extinguishers! This complete line of 9 powerful, sturdily-built sizes ranging from 2½ to 30 lbs., offers an extinguisher for any price or need. Available in the regular industrial type or the revolutionary pressurized Safe-T-Meter model with the exclusive visual gauge for on-the-spot inspection.



The exclusive Safe-T-Meter
gauge tells you at a glance it's
Ready To Go!

Dealers Invited

A few remaining choice territories still open to qualified dealers on an exclusive or non-exclusive basis. For further information write Safety First Products Corp., Dept. A, Elmsford, N. Y.

SAFE-T-METER FEATURES!

Approved Underwriters' Rating, Pressure Gauge Tells Status Of Extinguisher At A Glance, Can Be Used Intermittently, On-The-Spot Refilling, No Tools Required



Safety First

PRODUCTS CORP., ELMSFORD, N. Y.

always **SAFETY FIRST WITH KLEINS**

Over the years, there has been a tremendous advance in safety practice throughout all industry. Linesmen, electricians, workers everywhere have contributed to the safety measures that have resulted in today's excellent performance.

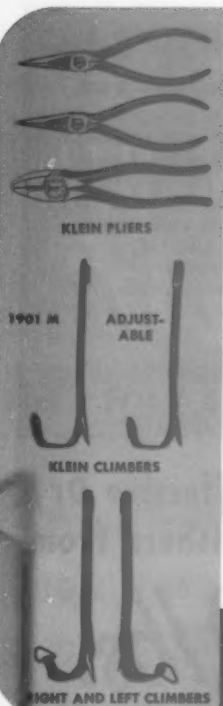
We are proud that the equipment produced by Mathias Klein & Sons has played a part in setting new safety standards. The general acceptance of Klein equipment today is the result of the quality that has been associated with the name Klein "since 1857."

This quality rests on the selection of the finest materials, the precise skill in every step in manufacture—the individual inspection and testing of every piece of equipment and by a continuing program of product improvement and development to assure maximum service, comfort and safety to the user.

Tour the Klein Plant
See us at Booths 65 and 66
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October 8 to 12



Mathias KLEIN & Sons
Established 1857 **KLEIN** Chicago, Ill., U.S.A.
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"SAFETY" MARKING TOOLS HELP PREVENT ACCIDENTS

► GIVE BETTER IMPRESSIONS!! ► LAST LONGER!!

To keep pace with industry's safety achievements, we are constantly improving steel stamps and stamping methods through the use of our special "Safety" Mecco Alloy Steel . . . which eliminates mushrooming and spalling. A few "Safety" marking tools are illustrated . . . many more are available to meet any marking requirement. Write today for Bulletin J-547.



"Safety"
Wedge-Grip
Stamps



"Utility"
Marking Outfit



"Safety" Wedge-Grip Type Holder



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Hand Tool Holder



"Safety"
Heavy Bevel
Letter and
Figure Stamps



"Safety"
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SAFETY
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M.E. CUNNINGHAM CO.
SAFETY STEEL STAMPS

**Make Marking Safe
with "SAFETY" Tools!**

200 East Carson Street

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I KNOW I'M SAFE...
with **WOODEN SOLES!**

See these and
many other styles
at Booth 115

For **BROKEN FOOT BONES**
CRUSHED TOES
SWOLLEN FEET

FOR THE FACTORY...

No. 300

REECE "HOT FOOT" SOLES strap on
over any safety shoe. They are heat-
proof, E. Z. WALKING sole protection.
Also made with tractor type wood sole
for greater flexibility, our No. 560.



REECE ORTHOPEDIC SHOE

No. 175-CG—Men's
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Keeps them on their feet—"on the job."
Wood sole acts as splint.
Guard is optional.



...FOR THE FOUNDRY

No. 504-S

REECE "ALL PURPOSE" SAFETY SHOE
... strong steel toe. "PERFECT
ROCKER" WOOD SOLE durable leath-
er uppers. Many other styles for un-
usually hazardous jobs.

**REECE WOODEN SOLE
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There is no
substitute
for Reece
Wooden
Soles

COLUMBUS, NEBRASKA

Provide Maximum In SANITARY WASHING FACILITIES

FOR ALL EMPLOYEES, MEN AND WOMEN

Bradley Full Circle Washfountains serve 8 to 10 persons
simultaneously—each with clean running water from
central sprayhead. The standard in sanitary fixtures for
over 30 years. With foot-control, water flow is cut off
automatically when washers leave.

**NO FAUCETS TO TOUCH . . .
NO CHANCE OF TRANSMITTING GERMS**

Sanitary Bradleys are used throughout industry
—in large and small plants. They provide maxi-
mum facilities in minimum space, reduce by 70%
piping connections and cut water consumption.
With foot-control there are no contacts with faucets
so no chance of transmitting germs. The large
bowl is self-flushing to prevent collection of used
and contaminated water.

To save time and guard health,
add Bradleys now. **BRADLEY
WASHFOUNTAIN CO., 2237 W.
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FREE CATALOG 4701.

BRADLEY
Washfountains

Distributed through Plumbing Wholesalers



Men often wash to the waist in
the clean running water provided
by Bradley Washfountains.



**FOR SMALL WASHROOMS
INSTALL BRADLEY
DUG-WASHFOUNTAINS**

Ideal for executive and
clerical washrooms—in
cafeterias, laboratories,
work shops. Two persons
served by sprayhead. Foot-
control prevents water
waste.



For **FIRST AID**

in breathing emergencies

For **SECOND AID**



Emerson Method of Artificial Respiration
Write for free illustrated bulletin.

EMERSON Resuscitators

SIMPLE to operate.

SAFE for adults, children, or infants.

Accepted by American Medical Association since 1942 for use by laymen.

PROVIDE SUCTION, alternating with pressure, to give vital aid to the circulation. Write for free Medical References on Resuscitation.

Emerson Resuscitators are for use only by professional or other adequately trained personnel and not intended to replace manually applied resuscitation but to supplement it. Every policeman, fireman, and responsible factory worker should know what a resuscitator can do to save lives and how to operate it.



J. H. EMERSON COMPANY

22 COTTAGE PARK AVENUE, CAMBRIDGE 40, MASSACHUSETTS

Occupational Disease of Sentries and Watchmen



Despite the fear of Court Martial, every now and then a Sentry succumbs to the overpowering desire for sleep.

The same thing happens to unsupervised Watchmen—especially on long, dull weekends when the plant is closed. That's why the DETEX GUARDSMAN Watchclock is considered the greatest plant protection tool ever invented.

The GUARDSMAN operates on continuous roll tape, keeps a minute-by-minute record of your Watchman's activities. If he sleeps, shirks or

skips a round—it will surely show up in his alibi-proof record.

Perhaps you are negligent about weekend supervision because it entails overtime pay for a supervisory employe to return to the plant and change the clock dial. Perhaps you have never given serious thought to the high incidence of fire, theft and vandalism on weekends.

The GUARDSMAN, with a 96-hour capacity, assures you peace-of-mind protection every day, whether your plant is working or idle. How can you afford NOT to have GUARDSMAN protection? Send for free folder today. Are you getting DO orders? Then you should be interested in our free manual "PLANT PROTECTION FOR NATIONAL DEFENSE." Write for your copy.



DETEX

PATROL
ALERT
ECO
NEWHEAT
GUARDSMAN Sales and Service in All Principal Cities

WATCHMEN'S CLOCKS
DETEX WATCHCLOCK CORPORATION
Dept. N-10
76 VARICK STREET, NEW YORK 13, N. Y.

Be sure to see the DETEX
Exhibit at the National
Safety Show—Booth #32
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Booths 110 & 111 **BUHRKE**
For Construction and Maintenance Safety



SCOTCH SNAP

SAFETY BELTS

SAFETY HARNESS

TOOL BAGS

SAFETY SNAP

TOOL BUCKETS

NEW INSULATED BUCKET HOOKS

GLOVE CARRIERS

TOOL POCKETS

ROPE SLINGS LANYARDS

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EDGED TOOL GUARDS

NEW
LINEMAN'S ULTRA-FLEXIBLE NYLON
LINEMAN'S STRAPS AND CLIMBER STRAPS.
SAFETY STRAPS AND CLIMBER STRAPS.
ROT PROOF AND MOISTURE PROOF.
CANVAS AND WEB PRODUCTS.
WRITE FOR DETAILS!

R. H. BUHRKE CO., 4701 W. Grand Ave., Chicago 39, Ill.
Safety Equipment Specialists for over 50 years

NEW! Introduced at the National Safety Show . . .



PHLO[®]

**A NEUTRAL Protective Cream
by the Makers of PRACTI-KREME**

PHLO, the low pH skin protector, is the new sister product of Practi-Kreme, nation's largest-selling skin protector and cleaner. It is the answer for workers who do not require Practi-Kreme's heavy duty dual protection. Women particularly appreciate its smooth-flowing texture, its handy personal-size tube container (3.12 Fl. Oz.).

Applied before exposure to coolants, cutting oils, cements, lacquers or solvents, PHLO conditions skin against dermatitis, a leading cause of absenteeism. It bars irritants from skin pores, excludes bacteria and soil, reduces fungus or bacterial infections.

The non-greasy, non-sticky feel of skin after applying PHLO attests the absence of fingermarks or harmful residues on objects handled. PHLO is a product you'll want to SEE, TRY, BUY!

A few choice territories are still open for live-wire distributors to industry. If interested, see Mr. C. E. Evans at Booth No. 11, Casino Room, Congress Hotel, during the Chicago Show.

CHEMICAL SPECIALTIES, INC.

54 Waltham Avenue • Springfield 9, Mass.

How Much is YOUR PLANT losing because of **POOR VISION?**

Accidents lessen production and increase spoilage—and *poor vision* is one of the most important contributing causes of accidents.

Now is the time to install a Keystone Occupational Visual Service. A sampling test, run on a group of your own employees, will show that a Visual Testing program will give you the results that thousand of plants are reporting.

LOWER production costs and training costs; lower labor turnover; less spoilage; reduced accidents and insurance rates.

INCREASED efficiency, larger profits; increased employee satisfaction.

Write for brochure "What You Can Expect from a Good Vision Program," by a prominent industrial personnel director.

Visit Booth 150, National Safety Congress, Stevens Hotel

KEYSTONE VIEW COMPANY, Meadville, Penn. Established 1892. Originators of Binocular Vision Testing in Industry.

The KEYSTONE

Occupational Visual Service



BOOTH 54 STEVENS HOTEL

THE SURETY RUBBER COMPANY
CARROLLTON, OHIO Dept. S

National Safety News, October, 1951



No Trick at all!

AVOID SLIPPING ACCIDENTS

with

Oil-Dri

A B S O R B E N T

Absorbs all types of Oils,
Greases and Fats from Floors

Oil-Dri

ALL-PURPOSE

A B S O R B E N T

Absorbs all types of Oils, Greases and Fats plus
Water and Soluble Oil Solutions from Floors

EASY TO USE...
Just put it on grease spots

ECONOMICAL...
Saves time - Saves labor

Ideal for:

- Restaurants • Taverns
- Machine Shops • Factories • Breweries
- Service Stations and Pits • Garages
- Repair Departments • Power Plants
- Kitchens and Food Plants • Elevator Pits

CHECK THESE ADVANTAGES

- 1 Reduces slipping hazards
- 2 Reduces fire hazards
- 3 Improves floor conditions
- 4 Reduces maintenance labor costs
- 5 Reduces insurance penalties
- 6 Improves working conditions
- 7 Permits safer, easier, faster walking on plant floors
- 8 Improves plant housekeeping

**DON'T PUT IT OFF -
PUT IT ON!**

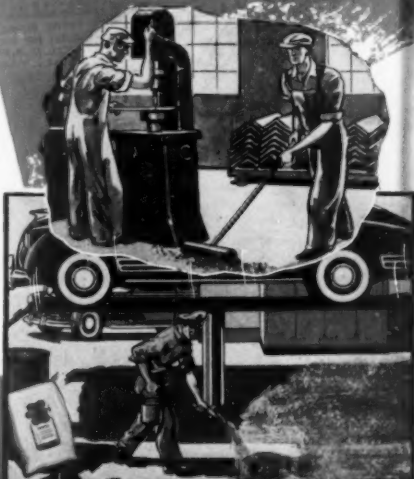
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STONEHOUSE SIGNS

For Accident Prevention



SAFETY FIRST **BE CAREFUL** **SAFETY FIRST**
HELP US MAKE THIS
A HARMLESS
YEAR FOR YOU NO ACCIDENTS

NOTICE
EQUIPMENT IN YOUR
DEPARTMENT MUST BE
THOROUGHLY
CLEANED
AFTER EACH DAY'S WORK

KEEP AWAY
DANGER
HIGH VOLTAGE

SAFETY FIRST
NO HANDS

FIRE HOSE

**ONLY WASTE & RUBBISH
MUST BE
KEPT IN CANS
FOR THAT PURPOSE**

SAFETY FIRST
WEAR YOUR
GOOGLES

THIS WAY OUT

CAUTION
THIS DOOR
MUST BE
KEPT CLOSED

SAFETY FIRST
WATCH-
YOUR STEP

KEEP OUT

CAUTION
THIS SPACE
MUST BE KEPT
CLEAR
AT ALL TIMES

DANGER
DO NOT OPERATE
MACHINE WORKING
MAN REPAIRS

FIRST AID

Generally speaking

There are a lot of very helpful Stonehouse Signs known as "General Accident Prevention Signs."

Their wide use by industry is proof of how really useful and helpful they are. Some of them are "Danger" signs; others "Caution" signs; still others "Notice," "Arrow" and similar well known Stonehouse types.

A few are shown here. Many others are illustrated, in full color, in our new Catalog No. 9.

STONEHOUSE steel SIGNS For Accident Prevention

If you haven't a copy of this new Stonehouse Catalog, 64 pages, may we send it to you? It's free on request.

Stonehouse

SIGNS, inc. MANUFACTURERS • Stonehouse Bldg., 9th at Larimer

"Signs Since 1863"

Denver 4, Colorado



ACCIDENT PREVENTION • steel SIGNS IN STANDARD COLORS AND DESIGNS

COPPUS "BLUE RIBBON" VENTILATORS

identified by the blue band

FOR WORKERS'

- Safety
- Health
- Comfort
- Efficiency

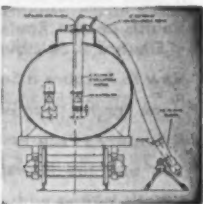
VANO Design "A" VENTILATOR



Vano Design "A" cooling interior of furnace, supplying fresh air through 10 feet of "Ventube" to provide safety and comfort during repair work.

Vano Design "A" delivering fresh air to cable manhole, expelling sewer gas, making entrance safe in a few minutes.

Vano Design "A" Ventilator plus a few accessories feeds large air volume into tank car, driving out fumes, stagnant or hot air for workers' safety and comfort.



Vano Design "A" supplying fresh air in Reactor Room of Synthetic Rubber Plant.



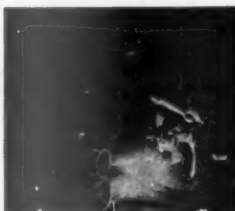
Vano Design "A" Ventilator supplying fresh air to men working in wing compartments, fuselages, etc.

Powered by a 1/2 hp motor, and equipped with the exclusive Coppus axial-flow propeller-type fan, this general-purpose blower delivers 1500 CFM of fresh air. It supplies ventilation for tanks, tank cars, drums, vats, underground cable manholes, pipe galleries, airplane wing compartments and fuselages, and other confined places. Weighs only 103 lbs. Uses 8"-diameter flexible canvas tubing ("Ventube").



VANO DESIGN "C"

VENTILATOR-EXHAUSTER



Vano Design "C" equipped with 8" discharge tubing removing welding fumes.



Vano Design "C" equipped with two suction lines removing welding fumes for operators' safety.

For withdrawing welding fumes from confined places or directly from the welding rod ... or for expelling fumes or hot air from enclosed vessels. You can get it with 8" suction inlet for 8" non-collapsible tubing ... or with multiple inlet nozzles for 5", 4" or 3" suction hose. The discharge outlet takes 8" "Ventube". Powered by a 1/2 hp motor, it weighs only 85 lbs.

COPPUS ENGINEERING CORP., 130 PARK AVENUE, WORCESTER 2, MASS.
Please send information on the Blowers that clear the air for Action.

- ☐ in tanks, tank cars, drums, etc.
- ☐ in underground cable manholes.
- ☐ in aeroplans fuselages, wings, etc.
- ☐ on cable cranes.

- ☐ on steam-heated rubber processes.
- ☐ on boiler repair jobs.
- COOLING:**
- ☐ motors, generators, switchboards.
- ☐ wires and cables.

- ☐ general man cooling, around cracking stills.
- ☐ exhausting welding fumes.
- ☐ stirring up stagnant air wherever men are working or material is drying.

NAME.....
COMPANY.....
ADDRESS.....
CITY.....

(Write here any special ventilating problem you may have.)

COPPUS "BLUE RIBBON" PRODUCTS—Designed for Your Industry, Engineered for You

NATIONAL SAFETY NEWS

OCTOBER 1951

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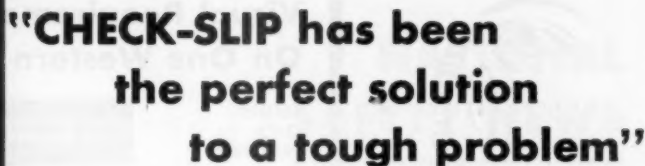
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**Says Mr. Charles T. Belbin,
Building Superintendent,
Wire Building, Washington, D. C.**

HOW TO MAINTAIN WHITE ASPHALT TILE FLOORS was the problem in Washington's beautiful new Wire Building. As the building superintendent points out in his letter, ordinary slippery floor waxes caused accidents, while the "non-skid" finishes discolored the white tile and failed to wear well.

CHECK-SLIP (although it contains no wax) combines the advantages of high-grade floor waxes and anti-slip finishes. CHECK-SLIP gives long wear, beautiful lustre and low upkeep combined with effective anti-slip protection.

Ask your WHIZ supplier to show you how CHECK-SLIP advantages apply to your floor maintenance and safety problems.

Vice President, Inc.
 1000 Broadway
 New York 10003
 May 25, 1951

Sales Manager
 The Bell Telephone Corporation
 Garden 2, New Jersey

Dear Mr. Lee:

I am writing you to suggest modern office buildings. I have been thinking of this for some time. Practically all the new buildings are modern. I have been thinking of this for some time. Practically all the new buildings are modern. I have been thinking of this for some time.

Washington's nearest police office buildings, the
Fire Building, opened January 13, 1950. Practically all of
our cases have been from this building, which is a
traffic area readily and is kept difficult to maintain.

At first we used none of many types, particularly
the non-metallic type. Some of these different types were
able to identify marks. Also, there were instances where
and one had resulted in the identification, but it did
was a small fire which was not marked by ordinary
and our files were unhelpful. — tried many types

Over a period of one year we have tried many types of waxes and floor finishes. We were a bit to give up our white floors as a case of bad judgment as to color, when upon the advice of one of the largest insurance companies we tried the new Coat-Grip. After close observation and control of these floors about Coat-Grip, we have decided to use Coat-Grip on all our floors.

[illegible]

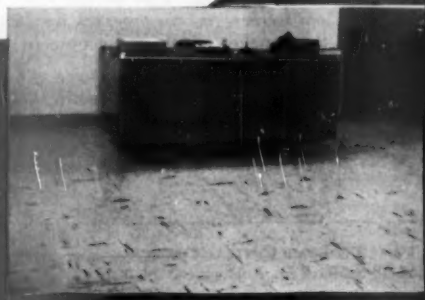
Check-Klip has been the perfect solution to a
problem. Perhaps it is being too enthusiastically when I predict
that Check-Klip will replace one as a floor finish. For
safety's sake, I hope so.

Very truly yours,
John A. Ireland, President

Very truly yours,
Charles Tedmon Balbin
Charles Tedmon Balbin
Building Superintendent
Wire Building

CHECK-SLIP demonstrated these advantages on asphalt tile and terrazzo:

- Positive Anti-Slip Protection
- Easy to Apply and Maintain
- Long-Wearing, Lasting Beauty
- Saves Time, Saves Money



This is a white asphalt tile floor in the Wire Building, kept clean and slip-safe by CHECK-SLIP.



BAUSCH & LOMB OCCUPATIONAL VISION SERVICE Case History

Percentage of Workers Meeting Visual Requirements Tripled On One Western Electric Job

BEFORE
O.V.S.
PROGRAM

SATISFACTORILY MEETING
VISUAL REQUIREMENTS

NOT MEETING
VISUAL REQUIREMENTS

29.6%

PREDICTED
RESULT FROM
O.V.S. PROGRAM

SATISFACTORILY MEETING
VISUAL REQUIREMENTS

NOT MEETING
VISUAL REQUIREMENTS

68%

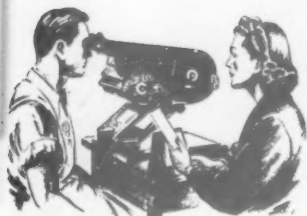
ACTUAL
RESULT WITH
O.V.S. PROGRAM

SATISFACTORILY MEETING
VISUAL REQUIREMENTS

88.2%

Preliminary to testing of workers under the Occupational Vision Service program, Supervisors of the group of Key Adjusters at one Western Electric plant rated the job performance of their workers; 29.6% were classified "satisfactory in meeting visual requirements," 70.4% "unsatisfactory." On the basis of expected performance when visual standards were established, it was predicted that 68% would prove satisfactory. After the visual test standard had actually been applied for six months, a performance check-up revealed that 88.2% of screened key adjusters rated "satisfactory" on job performance.

A PROVED METHOD



To help your plant make money 9 Ways!

It's a matter of record that 4 of every ten industrial workers are visually unqualified for satisfactory performance on their jobs (established by the records of millions of visual performance tests of industrial workers in more than 4,000 different job categories). When visual skills are correlated to job requirements, working efficiency is notably increased. The Bausch & Lomb Occupational Vision Service is a scientific method for meeting this problem of "Eyes for the Job." *Employee participation is voluntary...and workers like the program.* Benefits which accrue in plants using O.V.S. (benefits which can accrue in your plant, too) include:

1. Improved quality of production
2. Increased production per worker
3. Reduced waste of materials and work rejects
4. Improved accident record
5. Reduced labor turnover
6. Lowered training cost
7. More effective placement
8. Reduced absenteeism
9. Improved employee relations

MAIL TODAY!

Send for the brochure "Eyes Right for the Job," which tells what the Bausch & Lomb Occupational Vision Service is, how easily it can be administered in your plant, and at what low cost.



BAUSCH & LOMB OPTICAL CO.
802-10 St. Paul St., Rochester 2, N. Y.

Please send me the brochure "Eyes Right for the Job," and complete details on the Bausch & Lomb Occupational Vision Service.

Name Title
Company
Street City Zone State

NATIONAL SAFETY NEWS

OCTOBER 1951

Congresses Are Built

TOPSY had very little in common with a National Safety Congress. The little gal in *Uncle Tom's Cabin*, you remember, said she wasn't born, she just "grewed."

National Safety Congresses aren't born—but they don't just grow either. They are built laboriously on a 'round-the-year schedule. Into the building process go long, hard work and sharp, clear thinking by hundreds of men and women in all industries and in all parts of the country.

The reason you will find the 1951 Congress and Exposition tailored to your needs, is that people like you, facing your kinds of problems, have done their best to produce programs designed to help them and you to find answers to those problems.

Each industrial section of the National Safety Council has an executive committee. And one of the key jobs on each of those executive committees is that of program chairman. Each program chairman surrounds himself with a strong committee which canvasses the needs of his field of interest. Having determined the general outline, they line up the best available speakers on the various subjects.

This sounds simple. Actually, it involves an almost unbelievable amount of labor. I know from first hand knowledge that each program committee encounters some crisis during the year which seems

insolvable. Each program chairman at least once a year becomes convinced that all his efforts are unavailing and that a good section program cannot possibly be made ready in time for the next Congress.

But the problems somehow are always solved. The program does get built. And, because people like you have worked so hard, it is the kind of program you want.

Neither you nor I will ever be able to do much to show our Congress builders how much we appreciate their efforts. They don't expect us to.

But if we come to the Congress; if we regularly attend the meetings; if we carry home even a small portion of the information and ideas to which we are exposed, then we and our companies will profit from the Congress. Our efforts to hold down accident rates will be aided. Lives will be saved and injuries prevented.

And this is the one reward that program chairmen want—the knowledge that their work has done something real for the cause we all serve.

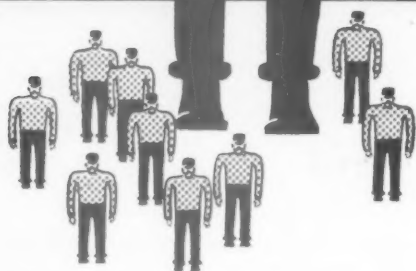
If, in addition, a few of us will remember to look up our program chairmen and tell them how we profited by their work, we will surprise those hard-working people immensely—and please them even more.

Ned H. Dearborn



A layman's look at three West Coast logging operations where safety is teamed with production

PAUL BUNYAN'S NEPHEWS



By BILL ANDREWS

OLD-TIMERS in logging are like all old-timers. Their theme song is, "You should have seen this business in the good old days!"

Because there is running water in the camp; because machines do much of the work; because many

loggers live at home and drive to work; because there are conservation and safety programs in the woods—because of these and many other things, the old-timers would imply that modern logging is an effeminate and degenerate descendant of the once robust, virile,

gusty business which produced, as its principal myth, the figure of the giant Paul Bunyan.

This article is a vigorous rebuttal of the old-timers' argument.

First, I will grant certain things. It is probably true that there is less need for Herculean strength



Above: Jack Kenney, safety supervisor of Molalla Forest Road, checks loading and driving practices, can ban trucks and drivers for violations. Most of his work is education.

Below: Terminus of Molalla Forest Road, Crown's dump on Willamette River. To prevent spilled loads, rules require tightening of hoist lines before binder chains are released.





Relief map shows every detail of terrain of Long-Bell's Ryderwood operation. This permitted preplanning for safety from the start.

Loader setting tongs for crane loader at Weyerhaeuser landing near Camp Baker. Tractor at left is yarding with arch.



in the woods today than formerly. It is probably true that pay day in the vicinity of a logging camp is quieter and less homicidal. Labor turnover—though still astronomical in comparison with that of, say, automobile factories—is far lower than in the days when every logger carried his bed roll on his back. Certainly more people are doing more for the welfare of both the timber and the loggers than in former years.

But today's loggers are taking out timber that was too tough for their predecessors to get. They are going higher in the hills for it, getting it off worse slopes, getting it out of awkward ravines. They are hauling it out faster, handling it better. They are finding profit in a kind of timber that Paul Bunyan and his contemporaries thought was sheer waste.

At the same time, they're doing a much tougher job than the

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Author (in light jacket) samples rough going on a Weyerhaeuser tractor near Camp Baker. The so-called "cut road" being followed was bulldozed hours before by the same tractor.



Above: Choker setters hook tractor-drawn arch to a bucked log. Winch on arch will hoist one end of log, so tractor can drag it.



Left: Rafting ground below Crown's Molalla dump. Boom man is pushing log into pocket with pike pole. Operation is one of sorting.



Main entrance to Lever Brothers' new Los Angeles plant, has reflecting pool.



Airplane view of the plant looking south. Buildings occupy about one-third of the 30-acre tract eight miles east of downtown Los Angeles.

THIRTY YEARS of safety experience in the manufacture of soap and shortening were drawn upon in the design and construction of the new Los Angeles plant of Lever Brothers Company.

When the plant was on the drawing boards of the builders, work was already under way by Lever safety engineers to incorporate in buildings and equipment advanced ideas for the protection of life and property against accidents and fire and to facilitate housekeeping.

Lever safety engineers prepared complete specifications for safety and these were issued to the design engineers in a paper entitled *Safety Considerations in the Design of the Los Angeles Plant*. Through every phase of the work, blueprints were double-checked by Lever project and safety engineers to insure the safest possible working conditions.

Before the Blueprints

While the plant was still on the builder's drawing boards, Lever Brothers engineers were at work on safety specifications



Once the new plant began operation, the organized safety program for employees was put into effect. The background for this planning was based on experience with five other soap and shortening manufacturing plants operated by Lever Brothers. Safety programs in these plants have resulted in a 90 per cent reduction in the company's accident frequency rate during the past 30 years. Throughout that period, the rate has been consistently below the average for the industry.

Among companies with comparable operations reporting to the National Safety Council, the frequency rate for disabling injuries has been less than half the average.

Two Lever plants hold national records for man-hours worked without disabling injuries. The plant at Hammond, Indiana, ran up over 3,600,000 accident-free hours for the soap industry record, and the Edgewater, New Jersey, plant figure of 1,505,000 hours stands as the best ever



Hinged bridge on tank car platform lowered for safe access to car dome.



No job for a fat man or one with claustrophobia. Men entering these tank cars wear wristlets so they can be pulled out quickly in an emergency.



Tank car access platform with connecting bridges elevated permit shifting cars.

ber of sprinkler systems would be out of service in the event of a break in a main. The water supply from the public system is augmented by a 300,000-gallon ground level storage tank, and a 100,000-gallon elevated tank. A 1500 g. p. m. electric motor-driven automatic pump and a 1000 g. p. m. standby turbine-driven pump take suction from the ground level tank thus providing an independent system of substantial capacity.

—To page 114

achieved in the vegetable oil manufacturing industry.

At the Los Angeles plant many interesting safety and fire protection features have been included.

The fire protection underground at the plant is a loop system arranged so that a minimum num-



Stairways and fixed ladders with anti-skid treads provide safe access to elevated locations. Shoes with slip-resistant soles also reduce chances of falling





Indispensable in harvesting bananas is the machete—No. 1 plantation hazard.

Left: The ANTIGUA of United Fruit Company's Great White Fleet loads in Barrios, Guatemala with a cargo for the U.S.A.

Health on the Route of the

Great White Fleet

By EDWARD I. SALISBURY, M.D.

A company's 50-year war against disease has brought economic progress to Middle America

EVERYTHING thrives in the tropics—food, wood, essential materials and disease. Infected wounds are a much greater menace than in temperate regions.

Today, Middle Americans are contributing more than at any other time in history to the world food basket with millions of tons of sugar, coffee, bananas, cocoa, and coconuts exported annually. Rubber, abaca or manila hemp, essential and other oils and woods are other commodities which are produced in quantity for export. On the other hand, disease which thrived with a luxuriance that

matched jungle growth no longer shackles progress.

The rise of Middle America to a strong, vigorous and economically solid entity would not have been possible, many observers believe, without control of the mosquito menace, improved sanitation and modern preventive and curative procedures.

For the past 51 years, Middle America has had a valuable ally in the war against disease. The founders of the United Fruit Company, growers of bananas and other tropical products in twelve Middle American countries, realizing that healthy employees were the key to success in any large agricultural venture, embarked on a broad and ambitious program

in 1899. Today, the company's continuing—and costly—program embraces field sanitation, routine and emergency medical and surgical treatment of 92,000 employees and their dependents, as well as private citizens in neighboring villages and farm areas.

This incessant vigilance and relentless war against disease has

Territory included in operations of the United Fruit Company.



DR. EDWARD I. SALISBURY is Medical Director, United Fruit Company.



Striking night view of the company's new hospital at La Lima, Honduras.

paid large dividends in supporting the growth of Middle America's well-being. Unending effort in general vaccination, inoculation and blood testing, establishment and maintenance of water and sewage systems, garbage collection and disposal, regular medical inspection and numerous other costly public health enterprises of the sort accepted in the United States as governmental financial responsi-

bility, have become regular United Fruit Company practice.

First line of the company's defense against tropical disease is its corps of the traveling doctors, technicians, sanitation crews and field dispensers. Constantly on the move, United Fruit's medical department personnel goes from farm to farm, community to community administering medical treatment and immunizations, and making regular blood tests. By protecting their people against disease by inoculation, and by discovering and treating cases in the early stages United Fruit's medical workers

perform service which is not only of immediate value in reducing pain and suffering, but which will pay off in the years to come when the children of today have grown to a healthy adulthood.

In actual practice, when a first-aid man suspects a case of malaria, he first sees to it that the case gets medical care, either in quarters or in the company hospital. Next he notifies the sanitary inspector who, with his crew, goes to work on the area like a sapper

—To page 109

Without malaria control, agricultural progress in Central America would be impossible. Left below: a foreman instructs a sanitation gang in insecticide spraying. Right: a mobile unit wages war on the mosquito, a more dangerous enemy than the venemous *far-de-lance*.

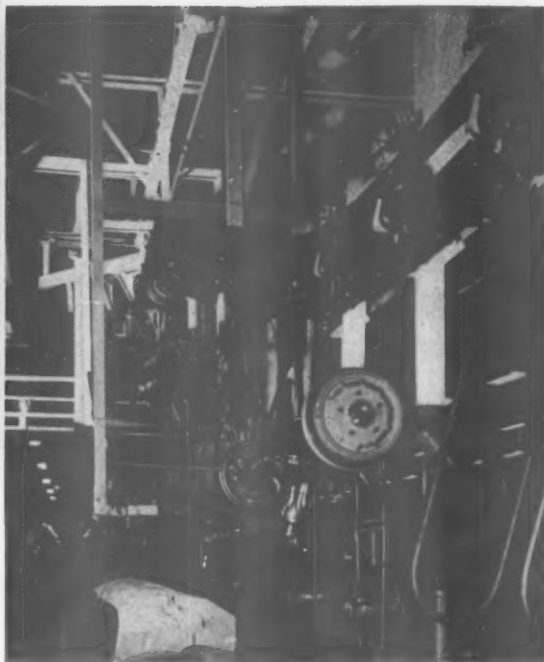




Log conveyor handling pulp logs to barking drums.



Trolley conveyor handling automobile parts. Rugged steel mesh guards are installed from the beginning of the incline until the parts reach their destination.



It Goes Where Man Can't

By JERVIS C. WEBB

The hardworking conveyor keeps materials flowing continuously through heat and bad atmospheres and near moving machine parts. It is removing bottlenecks and taking the hazard out of unhealthy, dangerous and back-breaking jobs.

JERVIS C. WEBB is Treasurer and General Manager, Jervis B. Webb Company, Detroit, Michigan. This article has been adapted from a paper presented at the 21st Annual Convention of the Greater New York Safety Council.

TWO YEARS AGO in Europe I saw conditions that were unbelievable. They were a reminder of the difference that mechanized materials handling can make in industrial operation.

Compare mechanized coal yards, foundries, paint shops, chemical processes and others with their old unhealthy, back-breaking, dangerous counterparts.

Consider the conveyor, for example. It goes where man cannot, or should not, go — into and through heat, bad atmospheres, cutting heads of machines—all kinds of conditions. Yes, industry is safer because of conveyors.

This article will include:

1. A brief discussion of the present conveyor equipment code and contemplated revisions, also generally accepted terms describing various types of conveyors.

2. Comments on over-all safety aspects of conveyORIZED manufacturing versus manual and other methods, also the desirability of finding the mean point in safety measures, not going too far yet far enough.

3. What can manufacturers and user do to insure proper safety features in conveying systems and the development of safety consciousness?

4. Some practical suggestions picked up from friends manufac-

turing and using conveyors and from my own experience.

1. Scope of the Code

The American Society of Mechanical Engineers has made a good start toward codification of safety suggestions. This document is entitled *Safety Code for Conveyors and Cableways and Related Equipment—B20.1-1947*.

The code covers generally and specifically the main types of conveyors. My rough selection is as follows:

BELT CONVEYORS. Continuous fabric, rubber, or steel belt of any width or length traveling on flat steel or wood beds, on flat or troughed roller beds, carrying packages, parts, ashes—in fact, almost anything.

APRON CONVEYORS. One or more, usually two, continuous strands of chain between which are suspended aprons, slats, pans overlapping or not overlapping, of many widths and lengths, with or without sides, carrying all sorts of materials.

Discharge end of steel apron conveyor handling metal turnings. Conveyor runs under factory floor, except the inclined portion which rises to dump contents into hopper.



Foundry mold conveyor. Drive is safely located in the pit below the floor covered by steel plate.

BUCKET CONVEYORS. Continuous belts, chain or chains, to which buckets are attached, carrying many types of material. Operated vertically, these conveyors are called bucket elevators.

CHAIN CONVEYORS. The term covers a multitude of designs and styles. Continuous chain or chains running over and driven by sprockets, supported by metal or wood track or roller beds. Sometimes called a drag chain. Material sometimes rests on the chain, sometimes rests on carts or trucks which are fastened to and pulled by the chain. Sometimes the chain itself works and advances bulk materials along by itself operating in a trough.

FLIGHT CONVEYORS. Again single or multiple strands of continuous chain, but to which cross bars or flights are attached for pushing and scrapping the material along in troughs.

GRAVITY CONVEYORS. Series of free rollers, or wheels or a flat sheet set in frames and supports such that materials are moved along by the force of gravity.

LIVE ROLLER CONVEYORS. Series of rollers motivated by belts or chains from underneath or by sprockets at the end of each roller.

Materials are moved along as they rest on the turning rollers.

OVERHEAD TROLLEY CONVEYORS. Picture an overhead track on which are suspended trolleys which in turn are spaced and driven by a continuous chain traveling parallel to the track. Loads of all sorts are suspended or moved along below these trolleys in or on hooks, buckets, trucks, baskets, suspended on or pulled by the chain and trolleys.

SCREW CONVEYORS. Consists of a helical screw in a guide channel whose relative rotations advances the material handled.

In every industry some of these conveyors are an integral part of manufacturing assembly. They are providing continuous mechanized processing facilities, are tied in with temporary storage, warehousing, shipping and receiving activities, or at the least are transporting raw materials, finished parts, or fuel from one place to another on the grounds.

These units move powerfully and mechanically and, as such, safety features are as essential to them as they are to machine tools, trucks or other mechanical devices.

The code treats these and other

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HOW TO PREPARE

By J. E. APPEL

Part I—Writing the Manual

DO YOU really need a safety manual in your company?

That's the first question you should ask before you tackle the job of preparing such a manual. Make no mistake about it: a good safety manual is not come by easily. It will be the result of long, hard, time-consuming labor. It will cost money. And it will not provide a cure-all for your accident problems.

Many companies find manuals of great value. Others do very well without them. So ask yourself very seriously what it is that you want the manual to do for your company, and then make a careful analysis to determine whether a manual is the best tool for doing it.

Here are some of the objectives

J. E. APPEL is Supervisor of Safety, Commonwealth Edison Company, Chicago, and a member of the Executive Committee of the Public Utilities Section, NSC. This article was prepared as a project of the Section's Training Committee. This article is being published in two installments. Part II, which will appear in an early issue, will discuss the details of producing the manual.

companies have assigned to their manuals:

1. To give a formal presentation of the rules and regulations employees are expected to follow.
2. To stimulate accident prevention by the company, union, and employees.
3. To insure correct interpretation of safety policy and administration.
4. To indicate to employees the company interest in safety.
5. To avoid friction and misunderstanding on safety procedures.
6. To act as an authoritative ready reference on safe practices.

Unless these or other reasons carry great weight with you, stay away from the manual idea and save yourselves much labor and heartache.

Advance Planning

But if you feel you need a safety manual, you can minimize both the labor and heartache by careful and patient preliminary planning.

Get the answer to these three questions:

1. Do we need a general manual for all employees or a series of man-

uals addressed to specific groups of employees:

2. How will the manual be used?
3. What type of presentation is likely to be most effective?

The general manual may have all the weaknesses that we mean by the words, "too general." It may either have to be very large and bulky or have to skip important details. It may be difficult to revise, because revision involves consultation with all departments.

The series of specific manuals, on the other hand, may be wasteful, particularly if much of the material in each is duplicated in the other. Conflicting treatments of similar problems may defeat the purpose of achieving uniformity of operating practice.

There is no single answer to the question, "Which type is better?" Each has its place, and your choice must be based on company needs.

Take the second question above seriously. A manual which is designed to be used in certain situations and under certain conditions may be totally unsuited to other situations and conditions, just as any tool may be right for one job and wrong for another. The manual is a tool, and you



A SAFETY MANUAL

must know how it is to be used before you can design it.

Only when you have the answers to these two questions can you intelligently face the third, which involves the choice of a method of presentation.

Some manuals must be formal, tightly written, highly technical and detailed. Others may stress a few points of an elementary nature, and may use art, humor and other devices to dramatize them. Some may be bulky tomes; others must be designed to fit in the hip pocket of a pair of overalls. One might have to speak the language of the new inductee who is not yet familiar with either the operations or the vocabulary of the industry; another might concern itself solely with an audience of trained and experienced craftsmen, with a considerable degree of sophistication in its subject field.

These are points to be settled *in advance*. You cannot intelligently proceed to actual preparation of the manual until they are settled.

Determining the Contents

The contents of a safety manual will vary with the requirements of individual companies.

A single manual covering the

operation of an electric utility, for example, might include the following major topics:

1. Purpose and scope of the manual.
2. General instructions to all employees.
3. Supervisors' responsibilities.
4. Employees' responsibilities.
5. First aid.
6. Fire prevention and control.
7. Protection of the public.
8. Protection of other employees.
9. Personal protective equipment.
10. Use of tools.
11. Rules for specific operations such as:
 - a. Production
 - b. Transmission
 - c. Distribution
 - d. Transportation
 - e. Maintenance
 - f. Shops
 - g. Storage and material handling
 - h. Work on customer's premises
 - i. Office work

Point 11 in the above list might be included in a general manual or might form a series of specific manuals for different groups of employees.

Obviously, the list of contents for a marine fleet or an automobile factory or a printing plant would be quite different from this. But, in any industry, the first step in preparation of a manual should be construction of this framework on which the whole manual is to be built. There should also be a

clear understanding of the amount of detail needed under each point.

Gathering Information

It has often been said that safety rules are written in blood. This is merely another way of saying that they are the results of experience learned the hard way. A study of the accident experience of others helps prevent many similar accidents.

Sources of information which can be used include:

1. The company's own accident experiences.
2. Safety suggestions submitted through the company suggestion system.
3. Safety meetings.
4. Inspections.
5. Manuals of other companies engaged in similar work.
6. National Safety Council.
7. Industrial and trade associations.
8. American Standard Safety Codes.
9. Casualty insurance companies.
10. Applicable federal, state and local safety publications, codes, and regulations.
11. Individuals in the company organization.

Just a word on the last point, the consulting of individuals.

The individuals should be consulted for two very practical and

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Hope for the Handicapped

By COLONEL E. A. BAKER

Few of the disabled are hopeless. Rehabilitation of mind and body enables many of them to live useful and happy lives

YOU CANNOT rehabilitate a man as long as he is in a despondent frame of mind. The person who has lost something he prizes most highly, such as sight, is going to concentrate his whole attention on what he has lost to the exclusion of all else.

That very important factor in rehabilitation was recognized by Sir Arthur Pearson, one of the grandest men who ever lived, in the opinion of thousands who knew him. He was founder of St. Dunstan's, an institution which has brought new hope to Britain's blind.

Sir Arthur was the publisher of 11 periodicals, including *London Daily Express*, *Pearson's Magazine* and *Pearson's Weekly*. At 48, after some 25 years in journalism, he lost his sight. He had adjusted himself and when World War I broke out he came up with an idea. He believed that those who were blinded in the war could be adjusted to a new life by adapting their previous experience and education to their needs.

To illustrate I will tell something of my own experience. Sir

Arthur brought me in touch with another lad who had lost his sight, and lost it in the war. When I discovered we had these two things in common, we naturally began to chat. Soon I discovered that this chap had another disability. He had lost his left arm.

What do you think happened to me then? I began to feel sorry for him and to feel grateful that I still had two good arms. From that point on I began to count the assets I had left. At St. Dunstan's I was shown how to develop and utilize my remaining talents.

I had started life with my feet on the ground and had turned to engineering. An argument with a rifle bullet altered my point of view and eventually pitchforked me from engineering which most of you associate with the term into

what I like to call "human engineering." And my six months' term at St. Dunstan's was a great help.

Perhaps from my own experience I can give a few useful hints on working for the blind and for the handicapped in general. There are still too many people who look at things only from the material point of view. Too often they forget the human element and human relations.

In 1916 when I came back from overseas with some germs of ideas which had been planted in my mind at St. Dunstan's, I landed in Canada with some people who had been blinded in the war and some who had lost their sight in civilian life. We surveyed the Canadian situation and found it woefully lacking.

Headquarters for the rehabilitation of Britain's blinded is St. Dunstan's, at Brighton, Sussex. (Photo courtesy British Information Services)



Blinded in World War I, COLONEL E. A. BAKER was trained at St. Dunstan's in England, a world famous institution for the rehabilitation of those who have lost their sight. For several years he has been managing director of the Canadian National Institute for the Blind, Toronto. This article has been adapted from an address before the Annual Meeting of the International Acetylene Association, Montreal, May 21, 1951.

There were academic and technical schools for the youthful blind, but for adults there were only two associations — one in Montreal and one in Ottawa — that attempt to train and give help. There was one free library operating out of Toronto and that was the total of the country's assistance for the blind.

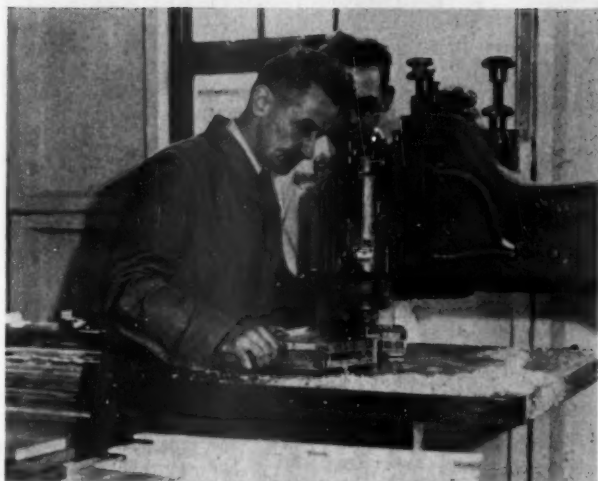
Today in Canada we have a nation-wide organization operating as The Canadian National Institute for the Blind. Of the total number of blind 11,000 are 21 to 69 years of age. Of this number, 4,800 are women. Then we have about 900 in the age group 6 to 20, and about 150 under 6.

Our analysis shows that more than 80 per cent of all the blind in Canada lose their sight in adult life, and no class or group is immune — farmers, lawyers, doctors, mechanics, engineers, bush workers, fishermen, and even politicians. We have a cross section of society, with varied talents, abilities and inhibitions.

In our rehabilitation program we leave the education of the youthful blind to those public agencies that are properly equipped to provide for sightless children. When it comes to adult life we step in to furnish employment opportunities or further training followed by placement, and then to take care of all those to be helped, at whatever age.

At present, over 1,700 adults are employed full time with a payroll of more than \$2,500,000 a year. These people are self-supporting and are able to look after their families. In addition we have 500 who have been assisted in taking an independent occupation, such as piano tuning, music teaching, farming and bee keeping.

Then we have more than twice the total of those two groups who, in addition to being incapacitated by blindness, are by reason of age or disability unable to do full-time work but are able to work in their own homes. These people are working more or less as their



This blinded veteran of World War I, learning operation of woodworking machines, is one of many who have been trained at St. Dunstan's.

physical capacity permits. They are able to supplement their pensions or their income, and in many cases are fully self-supporting.

We like to think what we have done in the case of the blind has afforded inspiration to our sighted friends in the communities where successful blind people live, and in addition that it has furnished inspiration to other groups of handicapped who have been hopeless for so long. So we are going along with these rehabilitation techniques which are both physical and vocational, and including along with that, social and recreational activities for the handicapped who most often in the past were pushed aside from the active stream of life and left to vegetate or dry rot.

Treatment First


It is estimated that in Canada today there are 900,000 seriously handicapped persons. In the United States you have proportionate numbers, as have Great Britain and other countries. We do not consider it good rehabilitation to allow any individual to

work whose condition can first be improved by treatment. When everything possible for physical restoration has been done, then is the time to step in with vocational counsel and training, with the necessary work adjustment to their new outlook, and with training for and assistance in taking advantage of employment opportunities.

It is man's God-given right to be respected and self-respected, and no man or woman can be so in enforced idleness through lack of opportunity and a hopeless outlook for the future. I can give examples of what I call good business in the rehabilitation field.

We had a young war veteran who was born in Brooklyn. He came up to Montreal, joined the Black Watch and went overseas with the Canadian forces. He came back a sergeant — but blinded. He decided he wanted more education. He had not even completed grade school. He went back to school, acquired the necessary credits to enter Toronto University where he got his degree of Bachelor of Arts.

Then he decided to do research work and has now completed the



Early fire protection in New York. Watchmen in towers throughout the city scanned the horizon through telescopes looking for smoke or flames. When fire was detected City Hall bell was rung.

A Century's Progress in FIRE DETECTION

By FRANCIS C. EVANS

**Automatic devices not subject to drowsiness
or panic now keep watch over life and property**

IN THIS "what-will-they-think-of-next?" age of electronics and nuclear fission, few people appreciate the advances made in the field of fire protection. Perhaps a brief tracing of the development of fire detection in New York City will show what this taken-for-granted safeguard has contributed to our city's preservation.

Most of the business section of New York was completely destroyed by a great fire in 1835. Following this catastrophe, the first fire detection system was established. This consisted of a series of bell or watch towers. Watchmen were stationed in the cupola of City Hall, and when a fire was observed the City Hall bell was rung. The direction of

the location of the fire was pointed with a flag by day and a lantern by night.

Other watchmen were placed in the towers of the Hall of Justice, the reservoir, and elsewhere in the city. When the City Hall bell rang, all the other bells took up the alarm and rang continuously until the fire was out. If nothing else, the clamor must have served to keep the population fire-conscious.

One hundred years ago the first revolutionary improvements were made in the New York City fire alarm system. Following the invention of the telegraph, lines were strung between towers and connected to the stations of the fire departments. With this came the Varick Street tower, 125 feet high, the tallest in the City. From this height, in those days, the watchman's view was unobstructed. He was equipped with a long hand-telescope and night glass to detect smoke or flame,



Acro annunciator, usually installed near building entrance, indicates particular floor or fire area where alarm originated.

which were seldom visible until the fire had gotten such a start that the building could not be saved. Fire-fighting efforts were directed mainly to confining the fire to as small an area as possible.

By the end of 1878 the custom of ringing fire bells throughout the duration of a fire was discontinued. Also by that time, volunteer firemen had been succeeded by paid forces on continuous duty at the fire houses. Signals were passed to all engine houses by telegraph. With the introduction of

FRANCIS C. EVANS is Engineering Supervisor, American District Telegraph Company, New York City. This article has been condensed slightly from a paper presented at the 21st Annual Safety Convention of The Greater New York Safety Council.

Central station operators on duty 24 hours a day check incoming signals and initiate corrective action. Fire alarms are automatically transmitted over a direct wire to the fire department. Burglar alarms are investigated by uniformed guards, with police cooperation when necessary.

fire alarm boxes on the streets the towers joined the ranks of other curios, and gradually disappeared.

One method of detecting a fire and getting the fire department into action is for someone to spot a fire and operate the nearest street box or telephone the fire department. There are, however, several recognized drawbacks to relying on this procedure. First, as a rule, by the time a fire can be spotted by a passerby, or even by someone on the premises, it may have reached sizable proportions. Secondly, many people who discover fires become panic-stricken and do not take proper or efficient action.

A review of the records of delayed alarms will show you what I mean. And please bear in mind that these are not the exceptions—they are common and typical. People often become confused and give wrong information. They have been known to call the police department instead of the fire department. Sometimes they wait for public telephones that are in use or party-lines that are in use. One of the most common mistakes

Sprinkler supervisory and waterflow alarm transmitters. These instruments are actuated by detection devices installed on the sprinkler system and signal central station when an abnormal condition exists.



Light-receiver unit of a smoke detection system. A similar device on the opposite wall projects a light beam to the receiver. Smoke passing through the beam reduces intensity of light and operates alarm.

is to try to put out the fire without calling the fire department. Another is wasting valuable time investigating the source of smoke before giving the alarm.

Here are a few instances: Recently hundreds of spectators gathered in the streets and on a nearby bridge to watch a building go up in flames, each person assuming that an alarm had been turned in; but no alarm was received by the fire department until the building was beyond saving. Not long ago a man jumped in his car and drove three miles to the nearest telephone to report a fire; on his way, he passed two fire stations. In another instance, an excited woman called the fire

department to ask the location of the nearest fire alarm box—when asked where the fire was, she blurted "Right here in my house!" and hung up.

Detection Systems

Modern-day automatic fire detection systems are the answer to this problem. They are on the job 24 hours a day—every day. They are designed to detect fire in its early stages and to send the alarm automatically. In these respects they are more constant, dependable and accurate than any human being. In fact, these systems can and are normally expected to distinguish between friendly and unfriendly fires.

The majority of our industries are full of necessary friendly fires. There are heating systems, ovens, dryers, steam rooms, various processes requiring heat, air conditioning and many others. These (until they get out of hand of course) are so-called friendly fires. An automatic fire alarm that signalled every time a furnace door was opened, or one that signalled whenever the sun shone on it, or when the janitor turned the heat up in the morning, would be more of a nuisance than a safeguard. For that reason, systems

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You and the Newspapers

By SYDNEY INGHAM

The editor wants news; you want publicity for safety. Here are suggestions for getting together



LIKE every other sustained effort, an accident prevention campaign must make workers and employers stop, look, and listen, and give proper direction to thought and action. Publicity is the life blood of every effort to stir men and women to action.

Newspaper publicity is a neglected instrument for the education of employers, employees and the public in all phases of commercial and industrial activity, including accident prevention. Properly done it presents information to the right people at the proper time and in the right place.

Newspaper publicity that will sustain interest and maintain activity in an accident prevention

campaign is of a highly specialized character, but so is similar publicity for scientific works, and many other subjects where information is difficult to prepare with clarity, simplicity and briefness and still be kept straightforward, colorful and convincing.

Few safety engineers are trained to appreciate the value of good newspaper publicity, or, if they have such appreciation, how to write a newspaper story and how to get effective distribution of it. Even where local industry has a public relations department good publicity for accident prevention campaigns is frequently overlooked and opportunities are lost. A public relations man slips

if he does not inform himself about accident prevention campaigns in his client's works.

Obviously, the best way to learn how to write publicity is to study at a school of journalism. There are also good manuals for every branch of publicity as well as a shelf full of books to serve general and specific fields of public relations.

Diagnosis of what is on the worker's mind is important to insure proper direction of publicity. Diagnostic ability is hard to come by but a working measure of it may be acquired by studying the techniques. One who has it is sensitive to public reactions and he gets for his timing and production a healthful public response. It must never be overlooked that some of the publicity relative to accident prevention



SYDNEY INGHAM, who now lives in Ludlow, Mass., had spent 36 years in safety work when he retired in 1948. For many years he was safety director for the Ludlow Manufacturing Associates and later served in a similar capacity for the Springfield, Mass., Armory, and the Atomic Weapons plant at Los Alamos, N. M. For three years he was vice-chairman of the Textile Section, NSC, and was one of the group that founded the Hampden County Safety Council. He has been a member of the American Society of Safety Engineers since 1922 and was honored by life membership on his retirement.

campaigns, for obvious reasons, must be slanted toward management.

The writer of newspaper publicity must rely on the merits of his copy—the appeal of his story to the editor's news-value sense. Pressure should not be brought nor should pleading be resorted to for space. Once a story has been accepted, the writer should never suggest to the editor where to put the story. These harried individuals have their own problems and big waste baskets always handy.

Any attempt to "put something over" is fatal. How can one conceal the truth when the rattle of machine guns and the roar and rumble of bursting bombs can be picked up on a microphone and sent through a loud speaker distant half way around the world?

Many persons who are responsible for accident prevention programs are ignorant of the meaning, philosophy and spirit of publicity. In their confusion they get off to a bad start, and quit after a few blundering efforts. Others, by study, grasp the fundamentals of publicity and they make better progress.

Progress procedure is the *how*, *when*, and *where*. No matter how modest the objective, it should be planned to follow that procedure. Newspaper publicity should be presented as such. Few attempts to disguise it as news would succeed anyway. It must be written with the detached viewpoint of the news reporter. The story should be outlined in the mind before it is written and it must have a news slant, yet it is in a class by itself.

The lead paragraph should have the big outstanding fact that is news, and the employer, the employee and the feature should be in it. An example follows:

Five hundred employees in the rolling mill of Extra Steel Mills were feted today in the plant cafeteria for working more than a million man hours without a disabling injury.

Minnesota Honors NSC Officers



RECOGNITION FOR "outstanding leadership in the Safety Movement in America" was bestowed upon William A. Irvin, chairman of the Trustees, and Ned H. Dearborn, president of the National Safety Council by the State of Minnesota through the Minnesota Safety Council on August 17, at Duluth. The certificates were presented by Governor Luther W. Youngdahl at the Governor's Highway Safety Conference which is the summer meeting of the Minnesota Safety Council.

In the absence of Mr. Irvin, his certificate was received by Francis J. Gavin, chairman of

Governor Luther W. Youngdahl of Minnesota presents awards honoring William A. Irvin and Ned H. Dearborn. Others in group, left to right, are: Francis J. Gavin, who received the certificate on behalf of Mr. Irvin; Mr. Dearborn, and A. V. Rohweder, president, Minnesota Safety Council.

the board of the Great Northern Railway and a Trustee of the National Safety Council.

The citation to Mr. Irvin reads:

Your deep interest in accident prevention, firmly established during your active administrative years with the United States Steel Corporation, became all the greater and national in scope with your affiliation with the National Safety Council in 1942.

This great influence has been felt in Minnesota since your visit here early in 1943. Your achievements in safety since then constitute a continuing living memorial to your business acumen and to your great humanitarianism. (Signed) Luther W. Youngdahl, Governor of Minnesota; A. V. Rohweder, President, Minnesota Safety Council.

Mr. Dearborn's citation reads:

As President of the National Safety Council you have given generously, with a spirit of friendliness, of your great abilities, knowledge and inspiration to the Minnesota Safety Program.

Many Minnesotans alive today owe much to your personal interest in their safety.

Six awards won by various groups, communities and agencies in the state were presented at the Conference by Mr. Dearborn.

The body of the story then goes on to tell the reader what it is all about. The most important details are written first and the whole so written that each paragraph could be the end of the story.

Brevity, clearness and responsibility for the facts should be apparent in every story submitted. Above all accuracy must be observed.

Dramatic incidents command major attention. They set apart men and events. They illuminate the mind:

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the industrial safety panel



What's Wrong with Small Business?

THE QUESTION:

What is the principal reason small business does not readily accept accident prevention service? What can be done about it?

THE PARTICIPANTS:

FRED W. BRAUN, vice president and chief engineer, Employers Mutual Liability Insurance Company of Wisconsin, Wausau, Wis.

ROBERT W. HUTCHINSON, engineer, casualty dept., Marsh & McLennan, Chicago.

ARTHUR S. JOHNSON, vice president, manager, engineering dept., American Mutual Liability Insurance Co., Boston.

G. S. KALLENBAUGH, asst. superintendent, Industrial Commission of Ohio, Columbus, Ohio.

W. DEAN KEEFER, 2d vice president, Lumbermen's Mutual Casualty Co., Chicago.

ROBERT M. MURRAY, chief, Division of Industrial Inspection, Rhode Island Department of Labor, Providence, R. I.

OSCAR T. NELSON, director, Safety and Sanitation, Wisconsin Industrial Commission, Madison, Wis.

COL. REUEL C. STRATTON, supervising chemical engineer, The Travelers, Hartford, Conn.

DONALD G. VAUGHAN, manager, Inspection and Engineering Department, Aetna Casualty and Surety Company, Hartford, Conn.

LEN P. WALTERS, Loss Prevention Research manager, Hardware Mutual Casualty Co., Stevens Point, Wis.

T. F. WHALEN, asst. manager, Loss Prevention and Engineering Division, Royal-Liverpool Insurance Group, New York.

CHARLES R. ZESKEY JR., chief engineer, T. H. Mastin & Co., Kansas City, Mo.

THE INDUSTRIAL SAFETY PANEL is an informal group of safety workers representing various branches of industry. Each month part of the Panel membership answers questions relating to accident prevention principles and methods.

The purpose of the Panel is primarily to obtain the personal views of the members. Statements presented here may or may not be expressions of company policy.

The Panel is conducted by mail and participants have no opportunity to compare notes or sharpen and define points of disagreement.

SUMMARY:

SMALL BUSINESS, always branded (among safety men) by its deplorable inverse ratio of accidents, gets an airing in this month's panel at the hands of one of its most sympathetic, and closest, professional groups—the accident prevention engineers of the liability insurance companies and industrial commissions.

Like Mark Twain's weather, everybody does a lot of talking about the sorry safety plight of small industry. Again and again, they review and compare the statistics on accident frequencies:

Large plants	8.95
Medium plants	17.30
SMALL PLANTS	22.50

Panel participants here listed, perhaps as well informed as any

group ever to discuss the vexing problem, advance the various reasons for existing conditions, such as lack of trained personnel, too many duties on the shoulders of small business executives, etc.

One factor on which they agree pretty generally involves the pocketbook: Small business thinks accident prevention effort is a luxury for big business—"just too expensive for us."

Solution of the problem, in the opinion of this group, lies in a better selling job on the part of all concerned, particularly on the part of insurance engineers and others most closely connected with the small industry accident cost problem.

The approach, they think, is to find the best way to convince small business operators of the economic wisdom of accident prevention.

But let the panel members speak for themselves:

MR. JOHNSON:



Experience of the group of safety engineers with whom I am associated, indicates that the owners of small business are just as receptive to helpful suggestions aimed to reduce accidents as are the managers of big business.

I think the fundamental reason

why small business does not accept much of the safety advice offered is that the advice is no good. Much of it is taken from big plant programs and warmed over to appear to suit small plant conditions.

Such recommendations must meet four critical tests as follows:

1. *Purpose.* Since in little plants (those up to 20 people) accident frequency does not mean anything, and small plants cannot afford to have a disabling injury oftener than once in a blue moon, the purpose of any safety suggestion is to remove a hazard which seems likely to be an accident potential.

2. *Approach.* Little plants have no use for a shot-gun approach. Recommendations must be specific. The analytical process must evaluate the activities of the people engaged there.

3. *Method.* Since the approach cannot be a glib "don't get hurt," but must be founded on analysis of operations, the method to correct a faulty operation must be an engineering method.

4. *Principle.* Since the small plant, just like the big plant, operates on principles of management which are universal, actions taken to carry out engineering methods for accident prevention must be founded on principles of management.

MR. HUTCHINSON:



Perhaps the most important reason is that small business fails to realize just how bad its accident record is. With the small

man-hour exposure, even infrequent accidents develop a large frequency rate by comparison with the larger plants. Yet, because the accidents do occur infrequently, they fail to create the proper impression—this particularly in view of the meager records kept by most small operators.

If the men who are responsible for the operation of the smaller businesses can be convinced that accidents are reducing efficiency and costing money, they will more readily institute the activities necessary to prevent them.

The burden of convincing these men lies mostly with the insurance engineers who have the most frequent contact with them. The en-

gineers, it would seem, could promote the keeping of more complete records.

MR. KALLENBAUGH:



Observing the lack of safety programs in many small plants through government inspection, the causes can be resolved into two groups; (1) lack of knowledge on the part of small plant personnel with respect to modern safety methods, coupled with the diversity of activities required of management personnel, and (2) the general impression of small plants that they are unable to finance a safety program in line with those outlined for larger plants.

Little difficulty is experienced in securing compliance with the mechanical requirements of the Ohio Safety Codes, therefore, the establishment of a small plant program is a matter of education. Penalty and merit rating provisions of the law give one approach for such a program from the monetary standpoint.

No state agency or any other group can have a field force sufficient to contact all small business on a yearly basis. Therefore, other ways and means to create interest at local group levels are used.

Two methods for accomplishing this are:

1. Establishment of local safety councils wherein large and small business jointly form the council with group breakdowns in general manufacturing lines with comparable man-hours. Interest is created on a competitive basis within the group and plants with a better safety record assist other plants within their group. There is also keen competition between councils on yearly average frequencies. Sixteen councils made an average reduction of 32.3 per cent in four years. This reduction was not made in communities that were unorganized.

2. Industrial groups carry similar manual rating. Safety programs on an industry-wide basis, therefore, can reduce the base rate of all industries in a given manual. State-wide indus-

try or association campaigns have produced a lowering of the manual rates for the industry through the same assistance program set up for local council groups.

The two foregoing methods have produced greater contact of small businesses and associations at less cost and with less manpower required at the central level than any other method we have experienced.

MR. BRAUN:



The small business manager or owner usually is the executive of all departments, which, in a larger establishment, are assigned to the care of others. The small business manager is commonly his own foreman, production manager, and personnel manager. This makes it difficult for him to pay close attention to all details.

Therefore, the accident prevention problem is one that the small business manager neglects badly—if not entirely. When he purchases workmen's compensation insurance as prescribed by law, he feels that he has solved his safety problem.

He has no realization as to the cost of an accident. He reports his loss to his insurance company and feels that his worries are over. Seldom does he realize what his accidents and thousands of others in his particular industry classification will do to his insurance costs.

To add to the problems of small business, many employees in the smaller plants must, of necessity, perform jobs which are not a part of their regular assignment. Therefore, these employees need adequate instructions.

Good supervision and practical training in regular work are of paramount importance.

The problem is to get the small business manager to realize his own particular problems—the cost

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(Fiction)

Congress Bound

By BILL ANDREWS

Sunday, October 7, 1951

IN THE LAST THREE DAYS I have explained to at least 20 people why I go to National Safety Congresses, why they should go, and just how they act to get the maximum benefit from a Congress.

I have been very earnest and very intelligent about it all. I've told the foremen of our party to buy notebooks and fill them with copious notes. I've told Harry Dexter, my junior assistant, in great detail how he should exploit the sessions, the Exposition, the chance meetings in the lobby. That took an hour of lecturing.

I spent perhaps three minutes telling my senior assistant, Jim Mason, the specific things I want him to check, knowing darned well that he knew his way around well enough so that I didn't need to advise him.

Finally, to the brass that ranks me, I made my usual speech about why the Congress is worth the time of myself, my assistants and a large group of supervisors.

No doubt I've been eloquent. Perhaps, in my eloquence, I was also wise.

But now, sitting in the club car of a Chicago-bound train, I face the problem of what, really, I expect to get out of the 1951 Congress.

And, since I can be honest, I have to say I don't know.

Something may happen today at the Industrial Conference meeting, that will highlight a problem I'm thinking about. Somebody like

Jacoby or Bill Yant or Frank Kelsey may suggest a useful train of thought.

Or it may be Max, my equipment-salesman friend, perched on the rim of an exhibit case, patting his fat belly like a Buddha, who might put his finger on the answer to one of the dozen headaches I've bulled about with him in the past.

There'll be somebody, I don't know who, to eat dinner with Sunday night and discuss this or that.

Monday there'll be the Annual Meeting, and oratory; I'll listen, because long experience with Congresses teaches me that, if I give way to my prejudices and flee at the first threat of a general safety speech, I may miss something quotable, informative or stimulating.

Then the routine starts—the series of days when you pick up the program at breakfast, look through the impossibly long list of papers to be presented, and select the two or three that hold the most promise—knowing darned well that the best paper I'll hear probably won't be one I chose, but one I stumbled onto while waiting for the one I chose to hear.

Maybe what I'll learn most from is one of the half-dozen tours of the Exposition Hall—but whether I will learn from seeing a new gadget or bulling with a salesman, or reading a piece of hand-out literature, I don't know.

There'll be executive committee meetings of the section, gabfests over many meals, speeches at the

banquet, bull sessions with Council staff members.

Any of these may or may not be productive.

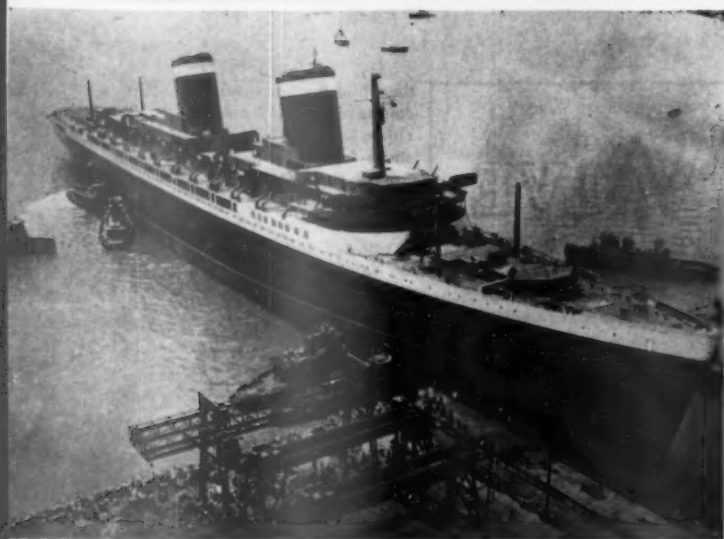
And so, this year at last, I come to the Congress having drawn elaborate plans for every other Jackson-Barnes employee who is attending—but sternly refusing to draw any detailed plans for myself.

A Congress is a strange and wonderful thing. But it is also almost completely unpredictable—despite the rigidity of the over-all pattern of its formal meetings.

Over the years Congresses have brought me more knowledge, contacts and ideas than any other similar expenditure of my time.

But if you ask me, this Sunday morning in the club car bound for Chicago, what I expect to do and learn, I can only shrug my shoulders and say, "I don't know."





The *GS UNITED STATES*, new flagship of the United States Lines, recently christened at Newport News. Fire-resistant construction of hull and furnishings, modern fire detection and extinguishing equipment, watertight, fire bulkheads with automatic doors, and the newest in navigation devices are all designed to provide the utmost in safety for passengers and crew.

Luxury and Safety Afloat

By REAR ADMIRAL H. C. SHEPHEARD

All safety features known to marine engineering are incorporated in the new SS UNITED STATES

AMERICANS are building a ship which will give this country best representation on the sea lanes of the world it has had since the days of the clipper. Excelling in many respects over other ships of the world, it will have safety features which will make it the safest passenger or troop ship in operation anywhere. The ship is the *SS United States*. It was designed by Gibbs and Cox, christened at Newport News in June 1951, and soon will be placed in service as the new flagship of the United States Lines.

One of the safety features of the *SS United States* is the improvement in fire safety. This is due largely to the elimination of combustible materials. This feature is most evident in the public rooms and passenger staterooms. In the past it has been here that the fearful cry of "fire" at sea has earned its reputation as the forerunner of a major disaster.

On the *SS United States* all wood trim and veneers have been eliminated, and all draperies, upholstery and mattresses will receive a fire-retardant treatment. Every article of furniture must be constructed of fire-retardant materials. Where passageways pierce fire bulkheads, automatic fire doors are installed. All can be closed simultaneously from the bridge.

The structural fire protection built into the ship will in no way reduce the usual number of extensive detecting and extinguishing apparatus which will provide for the prompt extinction of any incipient fire.

Next to fire the greatest hazard at sea is collision. Although the *SS United States* will be equipped with the latest navigating instruments, designers, to limit the extent of flooding, have provided a subdivision of the hull unprecedented for a merchant ship. A flick of a switch will close all power-operated watertight doors penetrating the watertight bulkheads.

The lifeboats on the ship will be constructed entirely without wood. The many important safety features of the *SS United States* are too numerous to mention. Some, like the ship's powerful machinery and the strength of the hull itself, are the result of years of experience in ship design, shipbuilding and ship operation. In contrast, the electronic navigational aids, radar and loran are developments of the past few years.

The ship will carry 2000 passengers under conditions of unexcelled comfort in peacetime. Statistics indicate that a passenger traveling with the American Merchant Marine is enjoying the safest method of transportation available in the world today.

In the event of war, the *SS United States* will be converted into a troop ship, and the safety built into the original design will become an even greater asset to the American people.

REAR ADMIRAL H. C. SHEPHEARD is Chief, Office of Merchant Marine Safety, U. S. Coast Guard, and Chairman, Safety Policies for Regulations and Ship Inspections Committee, Marine Section, National Safety Council.

The SAFETY VALVE

"See Us in Chicago"

THIS MONTH'S INSTALLMENT of *The Diary* finds Bill Andrew's fictional Safety Engineer on the way to Chicago for the 39th National Safety Congress and wondering what he'll get out of it.

The Safety Engineer (we never did learn his name) isn't worried about justifying the expense account and time away from the job. He's always been able to do it in the past. He's just wondering which sessions and speeches will produce those golden nuggets of knowledge and inspiration he knows he'll find.

That got me thinking, too. What will I get out of it?

After attending 27 Congresses, I know they will follow a rather definite pattern in the program and stage setting, yet always there's something new.

Like Bill's Safety Engineer, I never know where I'll find the nuggets. It may be in the keynote address at the Annual Meeting, or at one of the sectional meetings on my assignment list. I can count on a few from casual conversations in meeting rooms or the lobby.

Of course, an editor is always looking for manuscripts—meaty papers on topics of wide general interest, preferably with pictures. Leads for future articles are also part of the gold strike.

Sometimes ideas have delayed action fuses. A wise observation heard at the 1923 Congress banquet stuck in the back of my mind for 15 years and then popped out in an editorial.

And there's the pleasure of meeting folks—friends I've known for years, people I've corresponded with and met for the first time, and others I've known only as the

safety director for a certain company. This expanding circle of friendships is one of the benefits that grows with years on the job.

Weather for Congress Week: The Old Farmer's Almanac, which has proved almost as reliable as the official forecasts so far this year, isn't encouraging. Somewhere around the opening of the Congress the clear, cool weather prophesied for the first of the year changes for the worse: "No use fretting but you'll sure get a wetting." Winter, according to the Almanac, is due late in October, with no Indian Summer.

Oh, well, that forecast is chiefly for New England. Perhaps it will be different in Chicago.

Salvaged Lives

THE WEEK OF THE NATIONAL SAFETY CONGRESS is also National Employ the Physically Handicapped Week.

In the past, the handicapped have received little but sympathy and charity. Now the problems of their rehabilitation are receiving attention from the medical, sociological and occupational points of view. It is good business to take advantage of their remaining skills to make them self-supporting and self-respecting, as well as to use them in the present defense effort.

The article, "Hope for the Handicapped," is particularly appropriate for this issue. Blinded in World War I, Colonel E. A. Baker was trained at St. Dunstan's, a world-famous institution for the training of the blind established by the late Sir Arthur Pearson, a British newspaper publisher who lost his sight in middle life.

Now managing director of the Canadian National Institute for

the Blind, he is extending on this continent the methods and principles which have made St. Dunstan's famous in restoring to usefulness the sightless casualties of both war and peace.

In a not too literal sense these efforts are fulfilling the prophesy of Isaiah:

Then the eyes of the blind shall be opened

And the ears of the deaf shall be unstopped;

Then shall the lame man leap as an hart

And the tongue of the dumb shall sing.

In This Issue . . .

Geographically, this issue takes quite a stretch of territory, from the timberlands of the Pacific Northwest to the banana plantations of Honduras. The hard hat in the woods is symbolic of general safety progress, comments Bill Andrews. (Page 89)

And down in the Caribbean lands, where the mosquito and the machete are outstanding menaces, United Fruit Company has been conducting constant war against disease and accidents. This crusade has helped to bring prosperity to rich lands formerly ravaged by malaria and yellow fever. (Page 92)

To insure built-in safety in a plant, the safety department should sit in on the preliminary planning. When Lever Brothers built their new Los Angeles plant, 30 years' safety experience went into the specifications. (Page 90)

Fire protection may be less picturesque than in the Currier & Ives era but it is much more effective. Along with better extinguishing equipment are devices which do not depend on human vigilance for early detection of fire. (Page 100)

Carman Fish



Leading bananas for transportation to the nearest port for shipment to the United States. Banana bunches are padded with leaves to avoid bruises.

Great White Fleet

—From page 93

in a minefield. Thus, the primary case is treated before secondary cases can develop, and the mosquito-breeding area is eradicated. Normally, the sanitary men make periodic visits to each farm and surrounding areas on a regular circuit, spraying vegetation, water puddles, canals and buildings, and checking on drainage and sanitation.

Field dispensers—something akin to the Army's "corps man"—besides administering to simple

needs of those on their farms, also make frequent house-to-house and room-to-room tours, keeping their eyes open for unreported sicknesses, lapses in maintenance of sanitation and other departures from accepted practices.

Besides its medical personnel on the farms, United Fruit also operates 13 modern hospitals, strategically located so that their facilities are readily available to anyone in the company's areas. The company's first hospital opened in

1900 in Nances Cay, just off Bocas del Toro, Republic of Panama. The latest addition is the 300-bed hospital in La Lima, Honduras, equipped with air-conditioned delivery and operating rooms and ultra-modern equipment throughout.

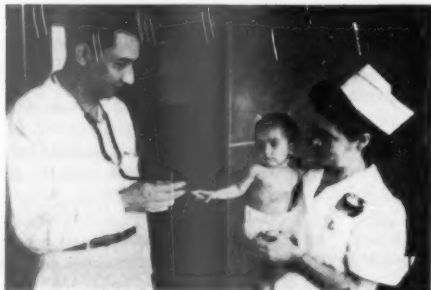
United Fruit realizes that it has to do more than provide medical care if it is to survive. Medical planners in the company felt that new disease cases could be drastically reduced and re-infection could be avoided to a large extent, if employees worked and lived in one area on a permanent basis. To implement this, big programs were ordered: construction of decent and adequate housing, establishment of schools and facilities for churches and recreation, commissaries and garden plots.

Concurrently, employees were getting an education in a sensible health program, disease prevention and safety measures. For the times, new concepts were developed: that screening houses, draining

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Right: Visiting Nurse Miss Lydia Gorro, conducts a first aid class for youngsters at Golfito, Costa Rica.

Below: Health programs in the tropics are increasing the chances of a child's reaching healthy maturity. Dr. Alfredo Sylva, medical superintendent at Golfito, checks up on a young patient who finds his stethoscope fascinating



The Honor Roll

Records of operation exceeding 300,000 man-hours, or one year, if exposure exceeds 300,000 man-hours, without a disabling (lost-time) injury are invited.

American Cyanamid Co.

Mobile, Ala.—September 19, 1944 to April 1, 1951; 408,577 man-hours.

Armco Steel Corp.

Middletown, Ohio, East Works Plant—Following are departments with records of more than one million man-hours as of May 1, 1951, with date of beginning of record:

Plant Protection — September 1919; 2,412,958 man-hours.

Production—March 1923; 3,546,382 man-hours.

Shipping—October 1948; 1,131,255 man-hours.

Masonry—June 1947; 1,050,225 man-hours.

Time Office—August 1924; 2,205,917 man-hours.

Engineering — January 1923; 3,222,586 man-hours.

Industrial Engineering—December 1929; 3,101,926 man-hours.

Works Accounting—February 1929; 1,860,415 man-hours.

Metallurgical—July 1944; 1,657,330 man-hours.

Power Sub-Stations — May 1937; 1,468,726 man-hours.

B. B. Chemical Co.

South Middleton, Mass.—May 16, 1950, through August 8, 1951; 396,932 man-hours; continuing.

Farley & Loetscher Mfg. Co.

Dubuque, Ia.—3,000,000 man-hours as of August 13; continuing.

Flintkote Co.

Chicago Heights, Ill.—303 days; 1,017,395 man-hours.

General Foods Corp.

Birds Eye Plant, Mt. Morris, N. Y.—1,125,777 man-hours since November 1949.

Franklin Baker Div., Philippine Islands—January-June 1951; 1,077,228 man-hours.

The Hartford Electric Light Co.

Hartford, Conn.—February 9 to June 1, 1951; 545,448 man-hours.

Eastman Kodak Co.

Color Print Processing Dept., Rochester, N. Y. — July 1949 through June 1, 1951; 3,269,002 man-hours.

Hughes Aircraft Co.

Culver City, Calif.—June 19 to July 10, 1951; 992,263 man-hours; July 17 to August 8; 1,315,312 man-hours.

F. H. McGraw & Co.

Construction of AEC plant, Paducah, Ky.—62 days since June 6, 1951; 2,239,630 man-hours; continuing.

Martin-Parry Corp.

Toledo, Ohio—November 5, 1948, through July 31, 1951; 3,158,991.8 man-hours.

National Distillers Products Corp.

Louisville Div., Hill and Hill Plant—February 7, 1950, through July 31, 1951; 1,280,815 man-hours; continuing.

Peoria Div.—September 23, 1950, through July 31, 1951; 815,092 man-hours; continuing.

Phelps Dodge Corp.

Morenci, Ariz., Branch—March 27 to June 3, 1951; 1,222,035 man-hours.

Quaker Rubber Corp.

Div. of H. K. Porter Co., Inc., Philadelphia—March 11 to August 31, 1951; 1,243,400 man-hours continuing.

United States Rubber Co.

Scottsville Plant—September 12, 1946, to July 31, 1951; 2,917,725 man-hours; continuing.

Asbeston Plant—February 14, 1946, to July 31, 1951; 1,804,488 man-hours; continuing.

Winnsboro Mills — April 12 through August 10, 1951; 1,137,893 man-hours; continuing.

United States Steel Co.

Clairton Works Coking Dept.—February 2 to August 6, 1951; 878,618 man-hours.

Clairton Works Open Hearth Dept.—January 8 to August 18, 1951; 683,992 man-hours.

Gary Sheet and Tin Mill—July 25 to August 22, 1951; 1,080,000 man-hours.

Vitreous Steel Co.

Nappanee, Ind.—January 24, 1949 to August 1, 1951; 622,968 man-hours; continuing.

Westinghouse Electric Corp.

Atomic Power Div.—February 15 to July 31, 1951; 1,245,848 man-hours; continuing.

Kansas City Works—May 4 to July 31, 1951; 1,130,120 man-hours; continuing.

Lima Works—March 15 to July 31, 1951; 2,513,807 man-hours; continuing.

Central District Manufacturing and Repair—February 3 to July 31, 1951; continuing.

Red No Protection Against Color-Blind Hunters

What a hunter wears may be a matter of life and death, according to the American Optometric Association which has issued a warning on color blindness.

"To be sure you are seen by fellow hunters, wear a cap or jacket in a bold pattern of black and white," said Dr. Elmer M. Soles, director of the association's department of public information.

"Contrary to general belief, a bright color is not the best safeguard because about 140,000 licensed hunters are color-blind.

"Some part of a hunter's costume should contrast sharply with the mottled visual effect of the autumn landscape. Squares, bold stripes or circles best meet the requirements."

Color-blindness, according to Dr. Soles, is inherited and is five or six times as common among men as women.

When Your Safety Program Goes Sour

By EDWIN E. GLOMSTEAD

MUCH has been written about how to set up a good safety program and how to make it click. But what are you going to do for a program that has won top honors from the National Safety Council and is now apparently going sour? You have ridden along month after month without a disabling injury, then suddenly there is a flurry of them—more in one month than you have had in a couple of years! It stuns you, you think the bottom has dropped out. It makes you wonder why, and most of all, it makes you stop to think.

Such a time calls for calm and collected thinking. There is an intense inclination to do something right away but there are certain things that should and should not be done. Instead of improving the situation you may only make it worse.

Before enumerating some of the suggestions to guide you, there are some assumptions:

1. You have a safety program.
2. You consider your mill safety record as having been good until now.
3. Safety is not something new in your organization.

In his association with one of Wisconsin's prominent industries, Edwin E. GLOMSTEAD has known the elation that comes from winning national honors in safety and the gloom that comes when the safety record crashes. His comments should offer encouragement to those who are going through that slough of despond.



4. Top management and the rank and file are safety minded.

5. Your organization belongs to the National Safety Council and uses its services.

6. Your supervisors are identified with local safety organizations.

7. You have enlisted the help of your labor organization.

8. You are constantly striving for good industrial relations with your employees.

9. Your work place is a safe, clean place to work.

Now for Action . . .

Here are some suggestions. There may be others but at least these will help:

1. Face the situation.

Face it squarely, calmly and objectively. Last year your mill was on the honor rolls of the National Safety Council—now you are way down the list in your group. Don't try to pass the blame; instead, you are going to face the situation honestly because you want to correct it.

2. Don't lose your perspective.

You have had some accidents, but were they serious? If they were, couldn't they have been worse? Remember the lucky breaks, too, in the past when a

split second prevented a lost-time injury. There is some luck in a safety program, no matter what many people believe, simply because human nature is what it is. But, you are not going to hide behind that alibi. However, there is no cause for panic either. Don't be stampeded into feverish, futile misguided actions, even though you are pressed.

Maybe as yet you haven't received a very pointed letter or order from the top brass demanding instant action. You will—for that's their job, and don't resent it. But don't break out in a rash with a lot of half-baked schemes. Your program is not going to pot over night although it looks like it has already. You know that it takes years to build a good safety program because human nature is slow to change. And, being slow to change . . .

3. Don't be a turner-upside-downer.

If you see a worker not wearing goggles or you see evidence of horseplay and unsafe practices, guards not replaced, sloppy house-keeping, etc., don't start raising

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THE ACCIDENT BAROMETER

Prepared by the Statistical Division, National Safety Council

ACCIDENTAL DEATHS in June totalled approximately 7,800, an increase of 3 per cent over 7,600 in June last year. A large increase in motor-vehicle accident fatalities was partially offset by a small decrease in deaths from public non-motor-vehicle accidents and a moderate decrease in deaths from home accidents. Deaths from occupational accidents numbered about the same as last year.

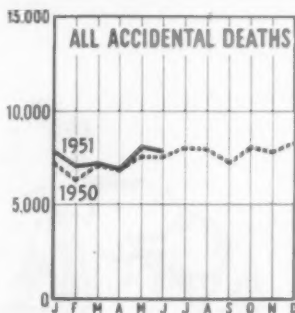
The six-month death total was 44,900, an increase of 5 per cent over 1950. All classes showed some increase with the largest change recorded in motor-vehicle deaths and the smallest in home accident fatalities.

Motor-Vehicle Deaths

There were approximately 3,080 deaths from motor-vehicle accidents in June, or 18 per cent more than occurred in June last year. Compared to 1949, it was an increase of 30 per cent.

Deaths during the six months totalled 16,320, an increase of 8 per cent over 15,120 in 1950. The death rate per 100,000,000 vehicle miles for the first half of 1951 was the same as last year—6.8.

Of the 44 states reporting for six months, 11 had fewer deaths than in 1950, 2 had the same number, and 31 had more deaths. Cities with populations over 10,000 reported an increase of 19 per cent for June and 5 per cent for the first half of 1951.



	1951	1950	Change
June	7,800	7,600	+3%
Six Months	44,900	42,600	+5%

Regional changes from 1950 in the six-month death totals were:

North Atlantic	+ 6%
South Atlantic	+ 4%
North Central	+ 5%
South Central	+ 2%
Mountain	+13%
Pacific	+24%

Occupational Accidents

June deaths from occupational accidents numbered about the same as in June last year—1,400. The January-June death total was approximately 8,200, an increase of 6 per cent over last year's comparable total of 7,700.

The June frequency rate per million man-hours in seven sectional accident prevention contests conducted by the National Safety Council was 6.18, about the same as last year. The June rate for

plants in community council interplant contests was 7.35, an increase of 2 per cent over 1950. The six-month rate in sectional contests was 6.68, no change from last year, while in community council contests the rate was 8.38, a reduction of 17 per cent.

Public Deaths

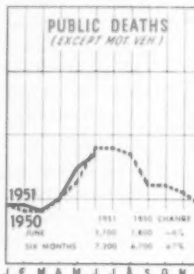
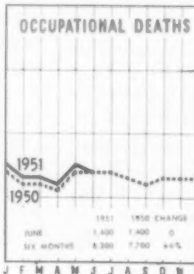
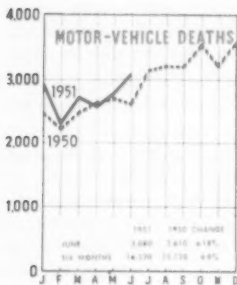
Public non-motor-vehicle accidents in June resulted in approximately 1,700 deaths, or 100 fewer than in June, 1950.

Deaths during the six months totalled 7,200, an increase of 7 per cent over last year. Moderate increases occurred in deaths from falls, firearms accidents and transportation accidents. There were small reductions in fatal burns and drownings. Increases were reported for children under 15 years of age and persons 45 to 64 years old. A small decrease was recorded for young people 15 to 24 years old.

Home Deaths

Deaths from home accidents numbered about 1,800, a reduction of 10 per cent from June, 1950.

The January-June total was 14,300, an increase of 1 per cent over 14,200 last year. Small increases in deaths resulting from falls, burns and firearms accidents were nearly offset by a sizable reduction in fatal poisonings. Mechanical suffocation deaths numbered about the same as last year. A large increase occurred in deaths of children 5 to 14 years and small increases were recorded in deaths of children under 5 and persons 65 years and over.





Paul Bunyan's Nephews

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toughest logging operation—they are building the future timber as they take today's. And they are taking timber at an ever-diminishing cost in human blood.

Dan Adair, the National Safety Council's engineer in the wood products field, and I spent three days recently high on the West Coast hills of Oregon and Washington, visiting operations of three different logging companies. And if you think logging's gone soft, mister, you can have all the hard stuff you want!

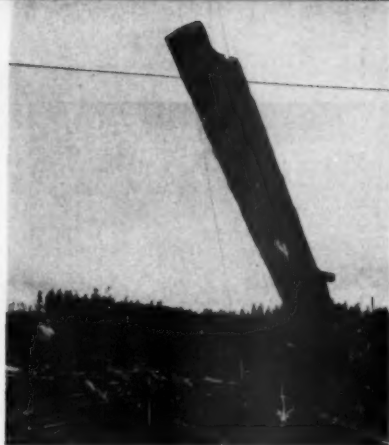
We went up 4,000 feet back of Molalla, Oregon, into the cold fog and drizzle that almost perpetually sops the high ground there. We were on Crown-Zellerbach land, and Crown's Molalla camp is perhaps degenerate—if you mean by degenerate that the cook shack is clean and that most of the men can live normal family lives instead of the bachelor existence of the bunk house.

First thing that hits you as you head into the hills is the quality of the roads. Molalla is on a sustained yield basis—trees are growing as fast as they are being taken. But sustained yield means more than leaving the land alone to regenerate. It means planting and fire protection, and fire protection means a network of roads—good ones.

Up in the blank fog, on the 40 degree slopes, we saw the high lead rigs yarding in the logs ("yarding" is the process of pulling the logs in from the spot where they fall to the landing, the point at which they are loaded on to some form of road or rail transportation.)

Handling material in a logging

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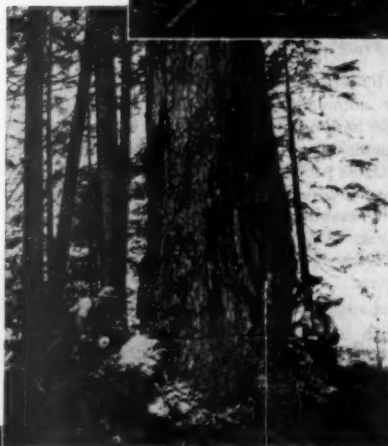


Chaser is directing landing of logs which have just been yarded in by electric skidder. Photographic perspective makes him look perilously close, but this Long-Bell man is in the clear. Note the hand signals.

Timber! Fallers stand well back as giant Douglas fir crashes on Long-Bell land near Rydewood. A good faller picks his route to safety long before tree falls.



Fallers making undercut on same tree, using power saw. Sure footing is a must, but not always easily come by in rough terrain. Note in all pictures the hard hats.



Bucker undercutting a tricky log (see text). Back of saw is supported by handle of axe driven solidly into the log.



Access to tank tops is afforded by stairways leading to platforms equipped with handrails and toeboards.

Before the Blueprints

—From page 91

Building interiors are protected by automatic sprinklers and inside hose outfits. First-aid fire extinguishers are of the latest types. Outside protection is furnished by yard hydrants and hose houses and mobile fire fighting equipment, manned by the plant fire brigade is kept in a central fire house.

Complete protection has also been included for the two spray towers—large seven-story high cylinders in which the soap or detergent slurry is dried at high temperatures. Fixed temperature thermostats, rate of rise fire detectors, a water deluge system, automatic dampers, dust collector sprinklers, automatic furnace controls, etc., all are designed either to prevent fire, or to cope with one should it occur. To provide against the remote possibility of explosion within the tower, relief doors have been provided so that excess pressure would be vented safely to the atmosphere outside the building.

The electrical work includes local disconnect switches at ma-

chines for the protection of mechanics. All electrical equipment in areas where there might be combustible vapors or dusts is explosion-proof, and of a type approved for the specific hazard. All convenience outlets are the three-wire, grounded design which prohibits the use of ungrounded portable electrical tools, etc. Re-

ceptacles along tank car walkways for extension lights are on a six-volt circuit to provide maximum safety.

Guarding of machines has been complete. All prime movers and mechanical power transmission equipment, such as couplings, belts, gear and chain drives, are guarded in accordance with ASA Code B-15, *Mechanical Power Transmission Apparatus*. Bench and floor stand grinders are guarded to meet the requirements of ASA Code B-7, *Use, Care and Protection of Abrasive Wheels*, and are equipped with shields with built-in illumination. Screw conveyor covers are locked or bolted in place and openings protected by grilled hoppers. Bolted grilles are also provided in any tank manholes where there is a possibility of accidentally falling in.

Elevators, too, are designed for safety. They are of the traction type, self-leveling and are in accordance with the requirements of ASA Code A17.1, *Safety Code for Elevators, Dumbwaiters and Escalators*, and all have electrically interlocked doors. Stairways have been laid out with the utmost of care, the frequency of stair acci-

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Where machines were not adequately guarded by the manufacturer, moving parts have been completely enclosed by substantial guards.



Above the Flooded River. Poised a few feet above the swirling flood, a telephone repairman tests a cable on a bridge between Kansas City, Kansas, and Kansas City, Missouri, while his companion uses a walkie-talkie to co-ordinate repair work. In other places, telephone men were forced to take to boats.



Meeting the Emergency. Telephone people not only worked valiantly to restore service but to keep it going. Dikes were thrown around telephone offices. Switchboards raised above rising waters. Emergency power plants set up. Mobile radio telephones rushed to towns where telephone offices were washed out.

FIGHTING THE NATION'S COSTLIEST FLOOD

From the flooded sections of Missouri, Kansas and Oklahoma have come stories of the loyalty, skill and courage of telephone people in one of the Nation's worst floods.

Many returned from vacations to help. In one town, a single radio appeal for former operators brought twice as many as were needed. Hundreds of trained telephone people from other states were rushed to the scene to help their fellow workers.

Once again the Western Electric Company — the Bell System's manufacturing and supply unit — proved its value in an emergency.

By plane, fast freight and truck it rushed millions of feet of cable and wire, telephones, switchboards and other needed equipment.

No one can tell when or where such emergencies will occur, but the Bell System has to be ready and able to handle them when they happen. That means financially able as well as physically able.

This points up again that it takes a financially strong telephone company, with a strong supply organization like Western Electric, to give the Nation the service it requires.



Flying to the Flood Front.

Part of one hundred Long Distance operators who were flown from New York, Louisville and Chicago to Kansas City, Missouri, where a flood of calls followed the flood of waters. With traditional Bell System speed and teamwork, they pitched in to help at busy switchboards in the stricken areas.



BELL TELEPHONE SYSTEM

In *TOE SAFETY...* it's the **INSIDE**

We concede that no safety box toe can be made regardless of its basic steel, its gauge, or its profile that can not be collapsed by unusually extreme striking force. As we see it, the job of a steel safety box toe is to reduce as far as possible the potential of the accident — to be so protective as to cause an important percentage of amputations to become fractures, and fracture cases to become abrasions, and in innumerable instances of lesser accident save the wearer from as much as a bruise. Since the best steels are already in use and since increased gauge means wearer discomfort from weight, only architectural improvement can make steel toes safer. Toes that resist back-tipping — that buttress the toe dome under extreme toe-spring — that present greater bearing surface against the shoe upper in resisting lateral spreading — may well mean the difference between minor and serious injury to the wearer. Such toes are available to your safety shoe supplier. They are known as WINGUARDS.



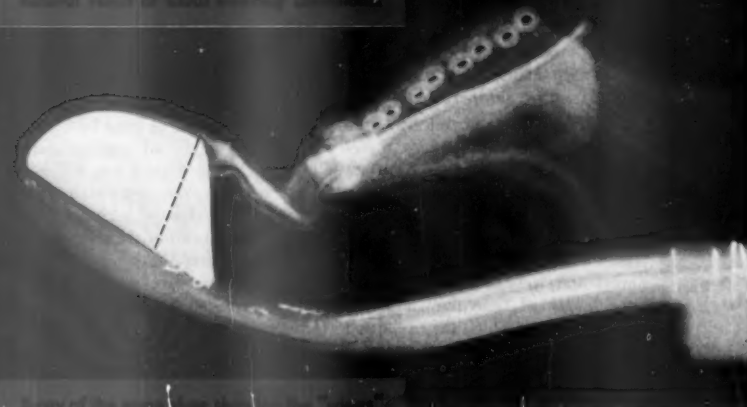
400
FOR SAFETY DRESS SHOES
Sizes 5 to 12, B and D widths.

500
FOR SAFETY WORK SHOES
Sizes 5 to 14, D width only.

story that counts



Photograph of a well-worn safety shoe containing WINGUARDS. Note the toe-spring, natural result of normal working conditions.



Many of the most serious shoe accidents of WINGUARDS will help explain the toe spring. One of the indicators of the back edge position of toe-spring types after toe-spring has forced the shoe into its working life.

WINGUARDS

safest steel box toes

National Safety News, October, 1951

**SAFETY SHOE MANUFACTURERS
LICENSED TO USE WINGUARD
STEEL SAFETY BOX TOES
as of July 1, 1951**



UNITED STATES

Allen-Squire Co.
Spencer, Mass.
Belleville Shoe Mfg. Co.
Belleville, Illinois
Curtis Shoe Co., Inc.
Marlboro, Mass.
Charles A. Eaton Co.
Brockton, Mass.
Endicott Johnson Corp.
Endicott, N. Y.
General Shoe Corp.
Nashville, Tenn.
Joseph H. Herman Shoe Co.
Millis, Mass.
Hill Bros. Co.
Hudson, Mass.
Holland-Racine Shoes, Inc.
Holland, Michigan
International Shoe Co.
St. Louis, Missouri
Knapp Bros. Shoe Mfg. Corp.
Brockton, Mass.
Levermore Shoe Co.
Sheboygan, Wisconsin
J. F. McElwain Co.
Nashua, N. H.
Milwaukee Shoe Co.
Milwaukee, Wisconsin
Mussbeck Shoe Co.
Oconomowoc, Wisconsin
A. H. Weinbrunner Co.
Milwaukee, Wisconsin
Wolverine Shoe & Tanning Corp.
Rockford, Michigan

CANADA

J. A. Blais, Inc.
St. Césaire, P. Q.
G. A. Boulet, Limited
St. Tit, P. Q.
Canada West Shoe Mfg. Co., Ltd.
Winnipeg, Manitoba
J. A. & M. Cole, Ltd.
St. Hyacinthe, P. Q.
Bonast, Lelonde, Inc.
Montreal, P. Q.
Frontenac Shoe Ltd.
Quebec City, P. Q.
The G and H Shoe Co.
Campbellford, Ont.
Grab Shoe Co., Ltd.
Kitchener, Ontario
Hydra City Shoe Mfrs. Ltd.
Kitchener, Ontario
Palmer-McLellan Shoe Co., Ltd.
Fredericton, N. B.
The T. Simon Shoe Co., Ltd.
Aurora, Ontario
The Stay Shoe Co., Ltd.
Montreal, P. Q.
Sterling Bros., Limited
London, Ontario
Tetraust Shoe Ltd.
Montreal, P. Q.
The Tillsonburg Shoe Co.
Tillsonburg, Ontario
Underhill's Limited
Barrie, Ontario
Valentine & Martin Ltd.
Kitchener, Ontario
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Industrial Health

Abstracts of current literature on Industrial
Hygiene, Medicine, and Nursing

By F. A. VAN ATTA, Industrial Department, NSC

Report on Treatments For Common Cold

Symptomatic Treatment of the Common Cold, by Ronald Forbes Buchan, Alfred E. Gras and Frank H. David. The Archives of Industrial Hygiene and Occupational Medicine 4:32-42 (July, 1951).

Because the common cold is the greatest single cause of lost time in all occupations it continues to be the subject of a great deal of study in industrial medical departments in an attempt to evaluate proposed methods of treatment and prevention.

In this instance employees of the home office of the Prudential Insurance Company of America were subjects of an experiment to evaluate the use of antihistaminic drugs as compared to a more customary aspirin-acetophenetidin-caffeine mixture and as compared to an inert placebo.

Individuals reporting to the health service were given a three-day supply of the appropriate medication with instructions as to how it was to be used. They were asked to fill out a form indicating the condition which they had when they reported to the service, the length of time they had had the symptoms which they reported and their history of frequent colds or various allergies.

They were also asked to fill out a report for each day on which they took the medication indicating how much they had actually taken on each day, what, if any, other medication was taken and which ones of their symptoms improved, became worse or disappeared on that particular day. At the end of the three days they were asked to report back for a second interview at the health service.

During the period from November 1949 to May 1950, 5,921 cases

of common cold were seen in the medical service and of these the data from a total of 2,865 cases were analyzed. The others were excluded either because they did not wish to participate in the study or because the data was not sufficiently complete for analysis.

The results showed that about 10 per cent more individuals reported being relieved from their cold on the first day by the antihistaminic agent than reported being relieved on the first day by the placebo. The difference decreased with time and was negligible by the third day. The antihistaminic agent had a 6 per cent advantage over the aspirin-phenacetin-caffeine combination on the first day and the difference became negligible on the third day.

There was no difference among the medications in the amount of time lost due to colds.

Records were kept hour by hour at the beginning of medication. There was no significant difference between the antihistaminic agent and the placebo in the group in which medication was begun 1 to 3 hours after the symptoms of the cold were first seen. There was no consistent significant difference among any of the types

Give

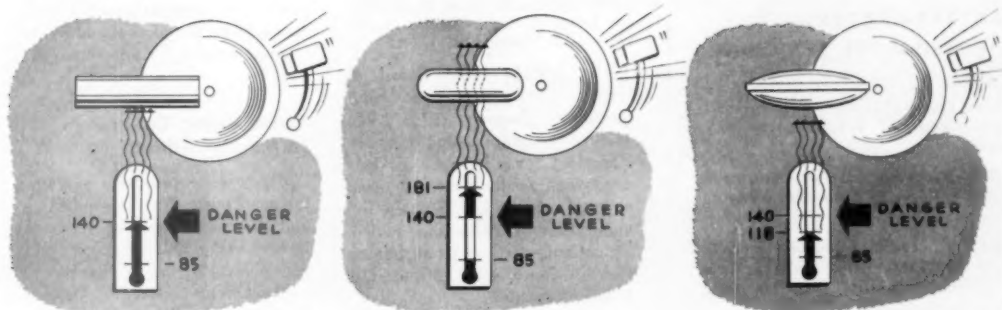


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This Year!

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Fenwal DETECT-A-FIRE horizontal mount combines
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Fenwal DETECT-A-FIRE unit, activated by its temperature sensitive shell, responds *only* when the temperature of the surrounding air reaches predetermined danger level.

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principle assures positive fire detection for plants, ships, institutions, all commercial, mercantile and public buildings.

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of medication in any of the groups up to the one which received its first medication 72 hours after the first symptoms of the cold were observed.

There were no troublesome side reactions from the taking of the antihistaminic agent.

The combination of the antihistaminic agent and the aspirin-phenacetin and caffeine combination was no better than the antihistamine alone and the aspirin-acetophenetidin-caffeine compound produced no more observable effect on the cold than did the placebo.

Employee Health

Indiana Physician Reports on Five Years of Experience With Employee Health Service, by Louis W. Spolyar. *The Industrial Health Monthly* 11:115-116 and 119 (August, 1951).

The Indiana State Board of Health started an employee health service in January, 1945. The original program called for pre-placement examination of new employees, medical care of occupational injuries and diseases, immunization programs and toxicological consultations to all bureau and division directors of the State Board of Health.

The service covers 425 employees, of whom about 60 per cent are women. During the five years there have been 447 complete pre-placement examinations which resulted in only one rejection of an employee. The State Health Department has hired 17 individuals with arrested tuberculosis, 3 with diabetes, 5 with heart diseases, 10 with hypertension and 3 with severe paralysis from poliomyelitis. An epileptic and a deaf mute have also been hired and all have been placed on jobs with which they can cope.

Chest films of all employees have found 4 active cases of tuberculosis as well as some other serious chest conditions and have lead to the belief that the periodic x-rays should be done every six months routinely.

There have been 16 compensation cases in this group in the five-year period.

This service was set up in the Industrial Hygiene Division of the Health Department and has been

used as a sort of laboratory for trying out medical service techniques. During the five years the record system was changed three times, the eye testing procedure four times and the drug list four times and the physical arrangements were completely revised twice to improve the privacy and flow of work.

From the point of view of the physicians in the health department it has had the advantage of giving them first-hand experience with the problems which a plant physician has to deal with every day as well as putting the health department in the position of doing the thing which it tells the industry should be done. This particular service has been certified by the American College of Surgeons as properly staffed and operated to produce an adequate medical service for the employee.

Better Vision Congress To Meet in Atlanta

Better vision programs as a tool for gearing up defense production and reducing man-hour loss will be stressed at the 4th annual Occupational Vision Congress at Georgia Tech in Atlanta, October 4 and 5.

Nationally-known figures in the industrial and professional fields will be presented in talks on conservation of vision, safeguarding the eyes from injury and the proper seeing environment for maximum employee efficiency.

Speakers at previous congresses have reported increases in production by as much as 20 per cent, lowered absenteeism of 35 to 50 per cent, and half as many accidents as a result of vision programs.

The 1951 congress will be sponsored by the Engineering Extension Division, Georgia Institute of Technology; the Associated Industries of Georgia, the Cotton Manufacturers Association of Georgia; the Georgia Industrial Nurses Association; The Georgia Optometric Association, the Georgia Society of Ophthalmology; the Industrial Hygiene Division, Georgia State Health Department; and the Illuminating Engineering Society.

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M&M RAIL CLAMP
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- 1 HOLDS CAR WHEELS FAST**—stops danger of costly derailments and lost time accidents.
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- 3 LONG LASTING SERVICE**—even under tough conditions because it's cast steel; lug and wedge are highest grade drop forgings.
- 4 A COMPACT, COMPLETE UNIT**—no chance of parts being lost. Wedge is attached to clamp with strong steel chain. Sturdy handle makes carrying easier.
- 5 MADE IN TWO SIZES**—to fit any rail, worn or new—Model A—40 to 100 lb. rails; Model F—110 to 175 rails.

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PERSONALS

Election of CAPTAIN EDWARD C. HOLDEN, JR., as a vice-president of the United States Protection and Indemnity Agency has been announced by Carl P. Kremer, president of the Agency.

Captain Holden, a past general chairman of the Marine Section, NSC, has been with the Agency since 1930. He has headed its marine safety program for the assured of the companies represented by the Marine Office of America.

During World War I he served in the Navy. He is a survivor of the *U.S.S. Covington*, Naval Troop Transport, sunk by a German submarine off the coast of France. He later served as assistant navigator of the *U.S.S. Texas* of the 5th Battle Squadron fame.

In the American Merchant Marine, he served through the grades with the Isthmian Steamship Company of the U. S. Steel Corp., progressing from 4th mate to master and seeing service on ocean trade routes throughout the world.

During World War II, Captain Holden helped top administrative and combat commands with the United States Navy in overseas service, ashore and afloat. He was awarded the Legion of Merit with Combat "V" for meritorious service against enemy forces during amphibious assaults throughout the Philippine invasions and at Okinawa while serving as commanding Officer of the *U.S.S. Starlight*. Following the successful conclusion of the Okinawa opera-

tion, Captain Holden was ordered to commission the *U.S.S. Admiral Wm. S. Sims*, a 25,000 ton super transport of the Pacific Fleet.

Captain Holden is president of The Council of American Master Mariners; and Past Commander of the Robert L. Hague Merchant Marine Industries Post, American Legion. He is a member of The Maritime Association of the Port of New York; the Propeller Club of the United States; the Society of Naval Architects and Marine Engineers; the American Society of Safety Engineers; the Reserve Officers Association of the United States; and The Marine Society of the City of New York.

W. C. LARAWAY has been appointed supervisor of safety for the Delaware and Hudson Railroad Corp. with headquarters at Albany, N. Y. He succeeds the late M. F. Clune.

Mr. Laraway has had 28 years of service with the railroad, starting as clerk in the car department at Oneonta and later was foreman there. After 37 months' service in the U. S. Air Force he returned to the railroad as chief clerk in the Safety Department. He was appointed safety agent in March, 1948.

Inter-American Safety Council announces that W. T. ROGERS, safety consultant, Ebasco Services Incorporated, has been made managing director of the Council. Mr. Rogers succeeds CAPTAIN J. N. PARROTT who has retired because of ill health.

Inter-American Safety Council was formed in 1938. Its membership is comprised of over 200 companies—industries of all types including transportation such as railroads, steamship lines, airlines, tramways and bus lines. The industrial members alone employ more than three and a half million persons.

Inter-American Safety Council is affiliated with the Safety Committees of Santiago, Chile; Barranquilla and Bogota, Colombia; San



Capt. E. C. Holden



"THERE SHE BLOWS"

From one end of the oil country to the other, McKay Chain is at work helping hit pay sands. But then—you'll find McKay Chain everywhere doing the useful jobs of lifting, hauling, rigging, tying, spinning and other material and power transfer applications.

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APRONS

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Officers of the Council are: President, R. J. Farlow; secretary and treasurer, American & Foreign Power Company; 1st Vice-President, G. P. Sawyer, vice president, Cerro de Pasco Copper Corp., 2nd Vice-President, R. A. Hummel, president, Lone Star Cement Corp., Treasurer, K. B. Sprague, Comptroller, American & Foreign Power Company, Secretary and Vice-Treasurer, Pedro M. Rincones, supervisor of training, Creole Petroleum Corp.; Legal Consultant, David E. Grant, Exselsen & Rorer; Managing Director, W. T. Rogers, safety consultant, Ebasco Services, Incorporated.

WILLIAM A. TROY has been appointed safety director of the Walter G. Legge Company, Inc. He will take complete charge of safety policies at the company's new plant in Peekskill, New York, as well as its Brooklyn plant and New York City headquarters.

Mr. Troy is a graduate of Holy Cross College and the Harvard Graduate School of Business Administration where he majored in industrial engineering. During World War II he served for three years in the United States Ordnance Department in Europe. He has been a safety engineer with the Legge Company since 1948.

A. H. KELLIHER has been named safety director for The



A. H. Kelliher

Manufacturers Light and Heat Company. He has been a staff member of the company's employee relations department for the past six years. He will also direct the safety program of the associated gas companies that



W. H. Adams

make up the Pittsburgh group of the Columbia Gas System.

Mr. Kelliher succeeds W. H. ADAMS who retired recently after 46 years with the company and has become a staff member of the American Gas Association. For many years he has been a member of the executive committee of the Public Utilities Section, NSC, and has held several sectional offices.

A. H. NUCKOLLS

ASA H. NUCKOLLS, for many years chemical engineer for the Underwriters' Laboratories, Chicago, died August 31 at his home in Wheaton, Ill. He was 70 years old.

Mr. Nuckolls was a graduate of Ouachita College in Arkansas and also studied at Massachusetts Institute of Technology and the University of Chicago.

He was chemist for Illinois Steel Company from 1905 to 1907 and chemical engineer from 1907 to 1946. Since then he had been a consulting chemical engineer.

Surviving are the widow, a daughter and a son.



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The 2% aqueous solution is not irritating or toxic in wounds; minor injuries are reported more promptly when 'Mercurochrome' is the routine antiseptic, because treatment is not painful.

'Mercurochrome' solution keeps indefinitely; the color shows where it has been applied.

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Reduces the occurrence of dermatitis
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Mine Disaster of 1922 Dramatized on TV



TV program marked opening of B. F. McDonald Company's new plant. Actress Gwen Caldwell cuts shoestring symbolic of opening with an assist from Ted Meyers, MC. Looking on are Oil Man Glenn McCarthy and B. F. McDonald.

A MINE DISASTER of 1922, which claimed the lives of 47 miners, was dramatized recently on a one-hour television show celebrating the opening of the new safety equipment plant of B. F. McDonald Company in Los Angeles.

On the night of August 27, 1922, fire broke out in the shaft of the Argonaut gold mine near Jackson, Calif., trapping 47 miners at the 4,200 and 4,600 foot levels. For 18 days and nights efforts were made without success to extinguish the fire and reach the trapped men.

As a last resort, the rescue team drilled from the neighboring Kennedy shaft 700 feet through muck and rock. For the last lap of the rescue operations they brought out their crude equipment—bulky oxygen tanks and canaries for detecting carbon monoxide in the air.

At the working levels they found the bodies of the victims behind hastily erected barricades with clothes stuffed into the chinks in a futile attempt to keep out the deadly gas.

B. F. McDonald, head of the company which bears his name, captained one of the Bureau of Mines rescue teams. It was during these strenuous days that the idea for a company to develop and manufacture safety equipment was born. The title of the show, "The Little Man Who Wasn't There," was suggested by the company's trademark emblem.

Interviews with prominent safety men and demonstrations of various items of safety equipment were included in the telecast. The dedicatory address was by Glenn McCarthy, prominent oil man and owner of the Shamrock Hotel in Houston, Texas.

The narrative presented in the script was compiled from yellowed newspaper clippings of 1922. Combining these facts with actual photo slides taken at the surface of the mine and below, the script writers were able to produce a realistic narrative of the rescue operations.

Television recordings of the show have been shown before numerous safety groups.



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The result of fourteen years of continued research, the Roadometer has been widely acclaimed as the most advanced driver-testing device yet developed.

Taking in nearly every phase of motor vehicle operation, the Roadometer tests you for steering, braking, speeding, signaling and use of horn all in a single continuous test. Realistic motion pictures take you over the

hazard-packed route while the "mechanical brain," through its unique point-scoring system, records your driving proficiency on an automatically-printed score card given each person at the end of the test.

The Roadometer is the latest addition to Aetna's impressive array of educational devices designed to make safety lessons sink in and stick. While you are at the Congress, be sure to "drive" the Roadometer yourself and to talk over with Aetna's representatives the many facets of Aetna Loss Prevention Service which can be valuable to you in your work.

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Water Supply Vital In Civil Defense

Water, where to get it, how to get it, and how to keep it flowing is the number one problem in wartime fire-fighting, the Federal Civil Defense Administration has pointed out. The Federal agency tackles this problem in a new manual, *Water Supplies for Wartime Fire Fighting*, which has been sent to state and local civil defense officials.

When an attack comes, survival or disaster for millions may rest on two things—keeping in service as much of the public water supply system as possible, and providing auxiliary water supplies, separate from the public water system, for fire fighting.

The manual makes suggestions for maximum operating efficiency of the public water supply system, and outlines what should be done for its protection, improvement and maintenance. It tells of procedures for emergency operations and the need for safeguard from sabotage.

The great fires in Germany and Japan during the last war taught us one thing. Our public water supply could be exhausted or rendered ineffective in a short time. In Tokyo efforts to combat fires were futile 30 minutes after the first bomb dropped. Water mains in Hamburg were broken in 847 places by high-explosive bombs, and its water system completely disrupted, in spite of good pre-attack planning.

Auxiliary water supply sources, such as oceans, lakes, rivers, ponds, streams and wells, and even private water supply systems in public and private institutions, industrial and commercial plants, must be utilized. Technical means of doing so are outlined in the manual.

As in all civil defense operations, there will be need for volunteer help, trained to act in emergency, and equipped with the necessary tools.

The National Board of Fire Underwriters furnished much of the material in this manual. It is for sale to the public at 10 cents a copy and can be obtained from the U. S. Government Printing Office, Washington 25, D. C.

National Safety News, October, 1951

we've
stripped
your
industrial
apparel
problems
down
to
bare
facts:

Here it is, straight from the shoulder:

We scrapped traditional thinking,
started from scratch to solve your basic
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chemical conditions.

We had these questions to answer: What
clothes would work best, wear best, feel best
under your job conditions? Could such
clothes be made to cost you less than any
industrial garments on the market today?

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under every available job condition before
we would believe it ourselves.

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ORLON

New wonder fabric of DuPont Acrylic Fiber by Travis
outlast cotton and wool garments 13 to 1

facts: Tested under specific chemical conditions, a
cotton trouser costing \$2.50 lasted 10 days—
your cost 25c per day. A comparable wool
garment costing \$7.00 lasted 15 days—your
cost 47c per day. A comparable Worklon
garment of Orlon costing \$8.25 lasted over one
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facts: Worklon Industrial garments of Orlon are
tailored in every type for every job, for men and
women. All are lightweight, better looking,
launder easily, dry quickly, need no ironing,
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The SU-10 RADIAC is an ionization chamber type survey meter with five differently colored scale ranges of 5, 50, 500, 5,000, and 50,000 mr/hr. It is built to Armed Forces specifications and has been approved by the Federal Civilian Defense Agency. The instrument is shock and immersion proof and is provided with a built-in radioactive checking source.



The SU-6 POCKET RADIAC is an ionization chamber type instrument which has a single logarithmic scale with a range of 25 r/hr. It can be operated with one hand and fits easily into hand or pocket. Hearing aid components are used throughout this survey meter.

Write for Bulletin E-32.

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Green Cross News

Activities of Local Safety Councils and Chapters

Compiled by TOM A. BURKE

Director of Local Safety Programs, Field Organization, NSC

Pittsburgh Publicity

In connection with the inter-league baseball contest between the Boston Red Sox and the Pittsburgh Pirates, played at Forbes Field in Pittsburgh on August 20, the Pittsburgh *Sun-Telegraph*, joint sponsor with the Western Pennsylvania Safety Council, ran a full page of splendid publicity pictures. The photographs indicated the child safety activities, such as the safety courts, the annual picnic for school patrols, "Safety-town" and the council's participation in the Green Pennant program. Topping the page were large action photographs of Ted Williams and Ralph Kiner, two of baseball's leading home-run hitters.

Nearly 12,000 persons witnessed the game which was won by Pittsburgh, 3 to 2. The page display was wonderful publicity for the safety council as well as for the ball game.

Incidentally on the same day the editorial page of the *Sun-Telegraph* featured a letter from Manager Harry Brainerd of the safety council urging the newspaper to expose the selling of the "atom" toy pistols as unsafe products. As a result of this letter a feature article provided the necessary urge to get quick action by the Police Department in banishing the sale of the so-called toy.

Noble Dutton Joins NSC Staff

NOBLE DUTTON, for the past five years director of the Portland (Ore.) Traffic and Transportation Commission, has joined the NSC staff as assistant department manager, Field Organization. He assumed his new duties on August 15.

Dutton has had wide experience

in safety administration, particularly in the field of traffic safety. He is a graduate of the University of Oregon and the Oregon College of Education and holds certificates from Oregon State College, for short courses in driver training and education, motor vehicle fleet safety supervision, industrial safety engineering and teacher training and vocational education.

He has planned and directed safety courses for many interested groups in the Portland area and the Portland Pedestrian Violators School, which he directed, has attracted national attention. He is an experienced writer and publicist and had practical educational experience as a school principal before taking up accident prevention work as a career.

During 1944 and 1945 he directed industrial checks as senior inspector in war industries in the Portland area and is familiar with all phases of industrial safety.

During his work with the Portland Commission he has gained public support for many of the Commission's policies and projects through his fine sense of public



Noble Dutton

Bailey GOGGLE VALVES

Open & Close Instantly

WHETHER OPERATION
IS FREQUENT
OR OCCASIONAL

THERMAL EXPANSION TYPE

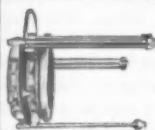
Steam passing through steel tubes causes linear expansion sufficient to free the goggle plate. When the steam is removed, normal cooling contracts the tubes, clamping the goggle plate with a gas-tight seal. In case of steam failure this type Bailey Valve can be operated mechanically.

MECHANICAL TYPE

A powerful, hand-operated clamping device assures a positive, gas-tight seal around the entire periphery of the valve. The goggle plate is released and clamped by the same powerful mechanism.

THERMAL

MECHANICAL



THERMAL
Made in diameters of
36" to 120"



MECHANICAL
60" x 48" Bailey
Valve for Horizontal
Gas Main. Sizes 6"
to 72"



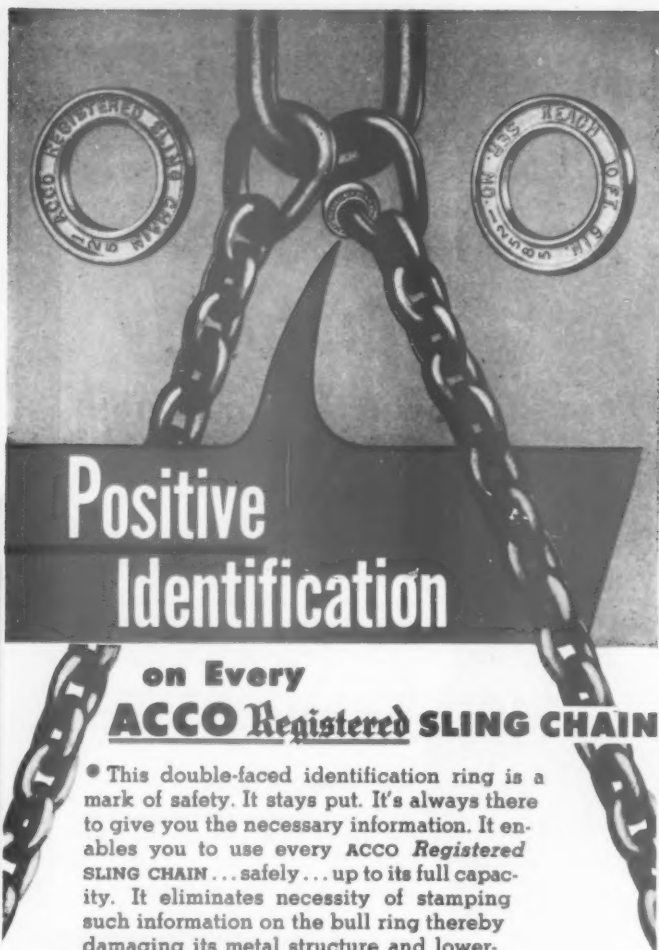
ENCLOSED
For use near open
flame a totally en-
closed type is fur-
nished

Here is the means to instant service in shutting off gas mains in emergencies or for repairs . . . regardless of the length of time the valves stand unused. Soundly designed and built of the highest quality materials, Bailey Goggle Valves have repeatedly proved themselves dependable on gas washers, blast furnace mains, precipitators and boiler plants. With their positive, gas-tight seals, Bailey valves protect men and equipment, and assure economy through long, maintenance-free service.



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Don't Gamble • Don't guess that a certain sling chain will lift an expensive machine. The damage to men and material is far too costly. Select the types, sizes and materials needed for your work from the complete line of ACCO Registered SLING CHAINS. The positive identification ring on each one gives you assurance that the unit was rigidly inspected and fully tested. You can't buy better sling chains.

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AMERICAN CHAIN & CABLE

In Business for Your Safety

relations and ability to diagnose traffic weaknesses and prescribe for their correction.

Dutton is a native of Portland, married and has two children. His family has moved to Chicago.

Ladies' Safety Councils

In a praiseworthy effort to promote community safety, wives, mothers and daughters of Missouri-Kansas-Texas lines in various cities along the right-of-way have been organizing "Ladies' Safety Councils." Nine or ten organizations have been set up during the past few months. The council ladies hold monthly meetings and this summer they have been conducting their business sessions in connection with picnics, watermelon parties, etc. B. A. McDonald, superintendent of rules and safety for M-K-T has been assisting in setting up the councils and the NSC Field Organization has provided appropriate educational program suggestions. Each council adopts its own by-laws and sets up its own activities program. This is an interesting development that eventually might be adopted by other railroads.

Los Angeles Report

In a foreword to the 1950-51 annual report of the Greater Los Angeles Chapter, NSC, L. W. Van Aken, president of the chapter, made this significant statement: "Accidents and their attendant loss in personal tragedy and economic drain, are one of the greatest corrosive forces extant in this nation and community today. The staggering total in terms of productive lives and dollars lost by criminal carelessness is a national disgrace. . . . The positive side of this grim picture is represented by those organizations and individuals, who, recognizing the vital implications of this problem, and believing it to be a community responsibility, have joined hands in a determined and continuous effort to overcome it. Their sole objective is the reduction of accidents and the saving of lives, and they seek this goal through education." The work of the various divisions is set forth in the unusually attractive booklet and particular emphasis is given to the industrial and commercial vehicle activities of the chapter.

Birthday "Cake"

The fifth anniversary of the Oklahoma City Safety Council was observed on August 11 and as a remembrance Manager Dan Hollingsworth sent out two-color birthday cards with a drawing of a five candle cake as the centerpiece. The folder pointed out that in the five years since the council was organized, Oklahoma had received ten national awards including two grand awards in the traffic contest for first place among cities of all population groups, plus national recognition for other safety activities. Incidentally, on August 5 Oklahoma City completed ten years without a single bicycle death, a remarkable record for a city with 16,000 registered bicycles.

Management Changes

The NSC Western Regional office reports that George F. Stoeberl is the new manager of the Maricopa County Chapter (Phoenix, Ariz.) succeeding Herbert Hodgson. Stoeberl, a graduate of the University of Wisconsin, is a war veteran and has wide experience in public relations, advertising and journalism. Keven R. Twohy, formerly legal advisor for the San Jose branch of the California State Automobile Association and a graduate of Santa Clara University, is the new manager of the Santa Clara County Chapter. He succeeds William J. Moore. Harold G. Stanley has been appointed managing director of the Pasadena District Chapter. He was a naval lieutenant in World War II and holds a B.A. degree in business and public administration. He recently completed a one-year internship in municipal management, a program conducted by the city.

Louisiana's Expanded Program

The Louisiana Safety Association is planning an expanded program of activities for 1952 and has recently published an enlightening booklet on the State's accident experience, "Saving Millions Through Safety." An interesting comparison shows that the annual cost of accidents in the state, \$76,000,000, is almost as great as the total operating expense of state government by functions for one year. In the proposed expanded program there will be 11 safety

EXTRA

DAILY BULLETIN

ANOTHER NATIONAL FIRST

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AER-O-FOAM "99" . . . new liquid type mechanical foam! Now get positive, quick-acting protection on fires involving polar solvents or petroleum products.

When applied to fires fueled by polar solvents such as methyl, ethyl, isopropyl alcohols, esters, ketones and ethers as well as petroleum products, AER-O-FOAM "99" offers new, dependable, stabilized protection. It is easily generated. Provides smothering, closely-knit blanket of fire-killing foam. Will not readily disintegrate or break down. Thoroughly tested, it is easily applied with existing 6% devices.

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Where slips could
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Keeps traffic moving faster!"*



U-S-S MULTIGRIP FLOOR PLATE is "comfortable to walk on, comfortable to work on. And, wet or dry, Multigrip offers skid resistance and positive traction in every direction . . . cuts down on accidents due to slips and falls. The sloping sides of the scientifically-designed risers make it impossible to trip on them. Multigrip is attractive in appearance. Easy to clean. Permanent. Safe.

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UNITED STATES STEEL

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activity divisions as follows: public information, traffic, home, child and school, industrial, commercial vehicle, farm, general public, fire safety, women's activities and statistical-research.

Small Plant Problem

Local councils and chapters were alerted recently concerning the small plant problem and the managers have been invited to cooperate in the nation-wide small plant program recently undertaken by NSC. The informational pamphlet, "Safety Pays the Smaller Business," has been sent to the chartered councils with a letter stating, "you will find this information interesting and helpful and you may discover some new approach to your problem, which we all know is a 'toughie.'"

Grand Rapids Assistant

Robert Richards, formerly safety engineer for the American Musical Instrument Company at Grand Rapids, has been appointed assistant to the manager of the Safety Council in that city and will be Manager Ross Farra's first lieutenant in directing the Council's activities. Richards has had wide experience in production control, personnel and safety work.

Down-to-Earth Facts

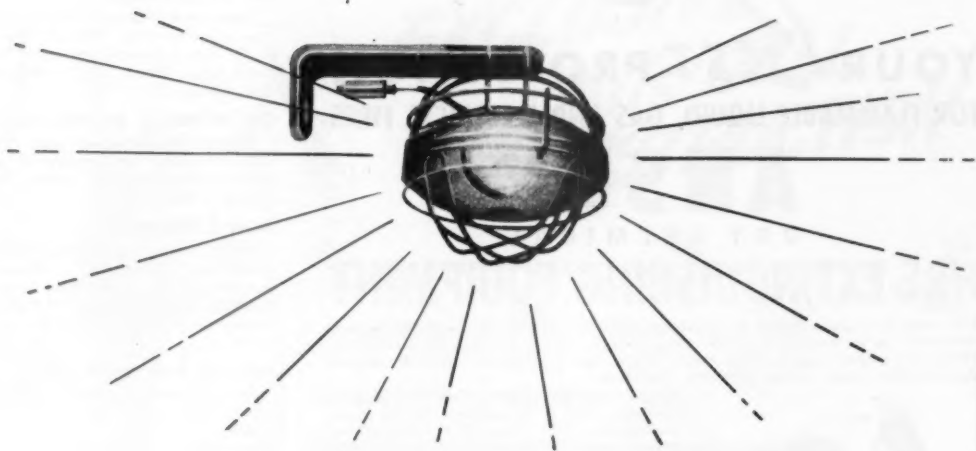
The Hampden County Accident Prevention Council has recently published and distributed a clear-cut description of the Council's activities and accomplishments in a 12-page planograph job, well illustrated with photos showing many Council groups in action.

Frequency Rate Reduced 82 Per Cent

Bethlehem Steel Company has reduced accident frequency in its operations by 82 per cent as the result of a thoroughly engineered safety program of 35 years standing, according to A. B. Homer, president of the company.

The reduction is based on a comparison of figures for the periods, 1916 to 1920 and 1946 to 1950. The figures include the records of steel plants, shipyards, mines, and other units.

Organized safety procedures, with people specifically assigned to the work on a full time basis, were introduced in 1916.



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Wherever a hazard exists—in engine rooms, fuel storage rooms, document vaults, electrical equipment—you can depend on fire-sensitive, fast-acting Kidde automatic or manual systems to protect your property. Call on us for full information.

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FIRE EXTINGUISHING EQUIPMENT

You, who have seen or used an Ansul Dry Chemical Extinguisher at a fire demonstration or on an actual fire, quickly recognized its superior fire-fighting capabilities. Further investigation proves that Ansul "Water-tight Construction" provides greater dependability under severe exposure conditions.



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Fire Chiefs, insurance inspectors, safety engineers, etc. recognize Ansul as the leader in the dry chemical extinguishing field. Ansul Fire Extinguishing Equipment and "PLUS-FIFTY" Dry Chemical have set unparalleled standards of quality for the fire extinguisher industry.

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ANSUL EXCLUSIVE FEATURES

- * Patented Nozzle assures most effective stream pattern . . . Best results by experienced operators.
- * Special packings in Nozzle and other parts exclude water.
- * Corrosion resistant construction throughout.
- * Easy on-the-spot Recharging (No tools needed).
- * Quick, positive puncture operation.
- * Special guard protects cartridge . . . rugged construction throughout.
- * Ansul "PLUS-FIFTY"® Dry Chemical used exclusively.
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COMING EVENTS

In the Field of Safety

Oct. 8-12, Chicago

Thirty-ninth National Safety Congress and Exposition. (Stevens Hotel). R. L. Forney, general secretary, National Safety Council, 425 N. Michigan Ave., Chicago 11.

Oct. 29-Nov. 2, San Francisco

American Public Health Assn., 79th Annual Meeting. Dr. Reginald M. Atwater, executive secretary, APHA, 1790 Broadway, New York.

Nov. 2, Cincinnati

First Annual Greater Cincinnati Safety Conference. (Netherland Plaza Hotel). Kenneth R. Miller, coordinator, Greater Cincinnati Safety Council, 1203 Federal Reserve Bank Bldg., 4th & Race Sts., Cincinnati.

Nov. 16, Fort Worth, Tex.

Seventh Annual Industrial Institute. (Hotel Texas). L. W. Graff, safety director, Fort Worth Safety Council, Majestic Bldg., Fort Worth 2, Tex.

Dec. 3-4, Baton Rouge, La.

Louisiana Safety Association, Annual Conference. (Louisiana State University). Charles E. Doerler, secretary, P. O. Box 806, Shreveport, La.

Jan. 21-24, Houston, Tex.

American Roadbuilders Association, Annual Meeting. Eugene Reybold, executive vice-president, International Building, Washington 4, D. C.

Apr. 1-4, New York

Twenty-second Annual Convention, Greater New York Safety Council. (Hotel Statler). Paul F. Stricker, executive vice-president, 60 E. 42nd St., New York 17, N. Y.

May 8-9, Baltimore, Md.

Statewide Safety-Health Conference and Exhibit. (Lord Baltimore Hotel). Joseph A. Haller, director of safety, State Industrial Accident Commission, Equitable Bldg., Baltimore 2, Md.

Leads Ford Plants In Safe Man-Hours

A company-wide record of 4,635,135 man-hours without a disabling injury has been made by Ford Motor Company's assembly plant at Chester, Pa. This sets a new high for Ford Assembly plants.

The previous record of 4,626,093 man-hours was held by the Somerville, Mass., assembly plant.

National Safety News, October, 1951



All 6 accident prevention features in...

EXCLUSIVE AIR-CELL CONSTRUCTION

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WATERPROOF!



HEAT AND COLD INSULATION!

FATIGUE-LESS COMFORT!

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Vul-Cork Oil Resisting Neoprene Soles — the only soles made with exclusive **AIR-CELL CONSTRUCTION**.

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Vul-Cork oil-resisting Neoprene combines VUL-CORK'S famous comfort features with complete protection against excessive oils, acids, caustics, and hot surfaces underfoot. With Neoprene, lightweight VUL-CORK Soles remain flexible, do not crack in extreme cold, do not revert — or melt — on hot surfaces. The ideal all-purpose sole.

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THE **Cambridge RUBBER COMPANY** VUL-CORK SOLE DIVISION
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Every Safety and Production supervisor wants workmen to keep goggles and glasses clean. Foul sight is a terrific hazard. It kills accuracy, efficiency and safe production. Yet lenses stay dirty and dangerous unless you make it *easy as possible* to keep them crystal clear. The trick is to make it *simple*.

MAGIC LENS TISSUE does this vital job the handiest way; quick, and in one operation. Does it *easy* . . . better, faster, brighter, more lasting. It polishes as it cleans. And it protects lenses like magic.



GO MODERN—GO MAGIC!

The results can pay for themselves a thousand times over; on assembly lines, in workshops, mines, foundries, process and machine operations of every sort, refineries, mills where dust or lint accumulates, welding or riveting areas where sparks fly, offices, engineering departments or laboratories where lens accuracy is indispensable.

If you supply a rag, or ordinary fiber paper, lint and smears stick to the lens. If you ask your folks to fuss with a cleansing fluid, time is wasted by this old-fashioned method, except in grimeiest operations. If you supply a small treated sheet, it tears and one sheet doesn't do the job.

You need a big sheet. And that's what you get. Each sheet is over 50% larger than usual . . . yet it costs less. The answer is in the volume from satisfied users. So you get a lot more safety for a lot less money. Compare these prices and advantages and decide:

NO COMPLICATED DISPENSER—NO CUMBERSOME CABINET NO BOTHER—NO WASTE—NO FLUID

MAGIC LENS TISSUE reaches you interfolded from our special interfolding machines. The simple, compact dispenser, NOT MUCH BIGGER THAN A MAN'S FISTS, contains no moving parts. Place it anywhere; elbow-close to the job. Just unlock it. Insert Refill Cartridge. It dispenses each sheet one-by-one without waste . . . at a great saving. And as easy as lifting a finger.

The paper is, without question, the finest that can be made; treated with General Electric silicone from the G-E House of Magic. Each carton contains 6 Refill packets (800 jumbo-sized 5" x 6³/₄" super-strong sheets per packet) at only \$8.40 per carton. And the dispensers cost only \$2.50. All prices FOB our factories. Wire or write us, or order through your safety supply jobber now.

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Safety Manual

—From page 97

powerful reasons. In the first place, there are many people in your organization with specialized knowledge of great value on various subjects which will be carried in the manual. Much of this knowledge has not been committed to paper, or, if so committed, is in the form of memoranda and other notes not available to the ordinary researcher.

Second, and perhaps more important, you are going to face at a later stage in the preparation of the manual the necessity of clearing it with many people. It is only common sense to involve some of these people in the project early and make them feel that they have a real share and voice in it. No better tactic has ever been devised for the prevention of opposition.

Writing the Copy

Safety rule books are excellent examples of the saying, "It isn't what you say that hurts; it's the way you say it." Essentially, safety manuals tell employees what they should and should not do. Modern manuals show a trend away from the "regimentation" style of preaching "do" and "don't" and "must" and "must not." Most employees resent this type of approach; if it is used, they may develop a subconscious antagonism toward rules.

However, there are some situations in safety where the absolute prohibitive *must* be used even at the risk of offending the reader or listener. For instance, "Travel at Your Own Risk," indicates that you can proceed if you are willing to take the risk which has been brought to your attention. In the case of a gasoline storage area, a *must* instruction, such as "Gasoline—Smoking Positively Forbidden," means just that. Use the *must* style like a whip—sparingly, and only when absolutely necessary. Put some faith in the intelligence of the reader to understand what is meant.

Present thinking is to use a positive and constructive approach. Here are some hints to follow—



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in your plant and on your products

Inland 4-Way Safety Plate®



Light! Strong!



Lasts Long



Quick Cleaning



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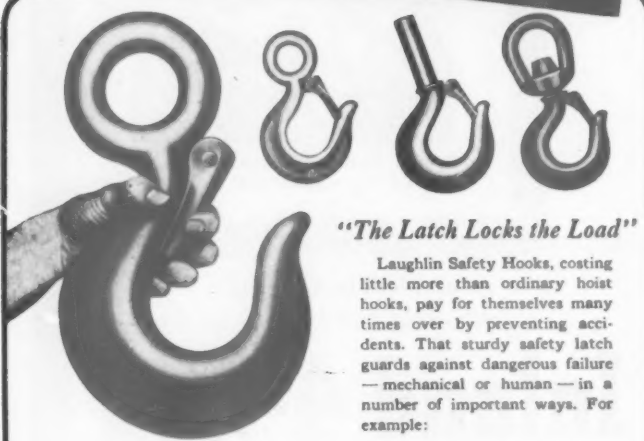
New Bulletin with New
Ideas—Just Out! Bulletin
Fl. Complete engineering
and application data.
Send for it!

STOCKED BY LEADING STEEL WAREHOUSES

SAFETY THAT'S BEYOND PRICE!

Yours for little extra cost with

LAUGHLIN
Safety Hooks



"The Latch Locks the Load"

Laughlin Safety Hooks, costing little more than ordinary hoist hooks, pay for themselves many times over by preventing accidents. That sturdy safety latch guards against dangerous failure — mechanical or human — in a number of important ways. For example:

1. It prevents load from slipping or jarring loose in mid-air.
2. It eliminates the hazard of carelessness — the load that was supposed to be lashed but wasn't.
3. It prevents overcrowding the hook.
4. It warns of hook failure, because latch will open if hook starts to spread.

Rig Safety into YOUR Hoists

by changing over to Laughlin Safety Hooks. Made of drop-forged, heat-treated steel, they have pressed steel latches in the smaller sizes, cast bronze latches in the larger sizes, all with stainless steel springs. Available in various types for 750 lb to 15 ton safe working loads at your mine, mill or oil field supply house.

Free! Catalog-Data Book tells you how to select the *right* wire rope and chain fitting for every job. Complete specifications — helpful tables. Use the coupon below.



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THE MOST COMPLETE LINE OF DROP-FORGED WIRE ROPE AND CHAIN FITTINGS



1. State rules as information or advice.
2. Tell what should be done rather than what should not be done.
3. Explain the why's and wherefore's.
4. Be informal in your approach.
5. Avoid putting the employee in a bad light.
6. Avoid preaching.
7. Avoid using the words, "must" and "don't."

One thing to bear in mind when writing is that you are writing for someone else to read and understand. It is erroneous to assume that others will understand what you write just because you understand it.

Some writing fails because it uses a vocabulary beyond the understanding of the audience for whom it is intended. Some fails because it employs awkward, complicated sentence structures. Some fails simply because the writer is inept at the trade of word carpentry.

So, unless you are a well-trained writer, try what you are writing out on people who are typical of the audience you are trying to reach. And don't wait till you have written 20,000 words of what seem to you beautiful prose. Try out your first chapter or two, and be sure you pick a critic who isn't averse to telling you if you are wrong. A technically perfect grammatical gem will impress colleagues and supervisors; but if it doesn't get the message across to the employees who read it, it will be a flop as far as accident prevention is concerned.

There are no sure fire tests for the readability of copy except this crude trial and error method. However, Dr. Rudolph Flesch of Columbia University gives us in his books, *The Art of Plain Talk* and *The Art of Readable Writing*, some rough, rule-of-thumb measures that have some usefulness. He has set up a formula for classifying written material into several levels of readability, ranging from "very easy" (level of the comics) to "very difficult" (level of scientific journals.) The basis for the formula is:

1. The lower the average number of words per sentence and the shorter the words, based on average number of syllables per 100 words, the easier your writing will be read and understood. Vary

SCHEDULE SATISFACTION?

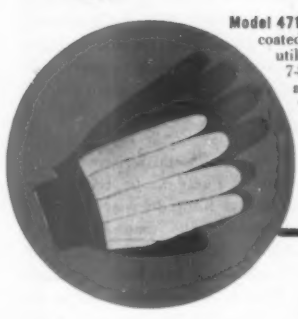
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Model 4710—Neoprene palm coated glove for general utility use . . . providing 7-8 times the wear of standard canvas work gloves.

Maintaining shipping schedules is always a problem for industry, both in the shipping itself, as well as in production delays that affect shipping. To help lick this ever-present problem see that your employees wear Hood Industrial Work Gloves! Then you can rest assured of more production through more protection for *vital* hands.

And remember, every Hood glove is performance-proven by actual "on the job" testing in every type of industry.

Two styles of these more economical gloves are shown here . . . just two of a complete range of gloves for more protection, longer wear, in *all* industries!

"Put your employee's hands into a safer glove"

Write today for the colorful new catalog showing the entire Hood line.



for NEW Safety *PLUS*



HOOD RUBBER CO. Watertown, Mass.

EASTERN "A" STANDARD and SAFETY SIGNS

Won't Blow Over
Folds and Locks
in Place



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New Type Eastern "A" Standard

. . . enthusiastically accepted by city and county highway departments for most effective warning of motorists approaching a work area. Durable angle iron frame opens into a wide base that won't be knocked over by strong winds or gusts from passing trucks.

Unit stands 27-in. high, is 18½-in. wide, and sign is 18-in. x 18-in. Weighs only 13 lbs. Flags are removable and unit folds neatly, locking sign in place for convenient carrying and easy storage.

Put safety to work for you with Eastern Metal signs . . . constantly on guard against accidents.

All Eastern Metal signs are official designs as specified by the American Standards Association, with new, legible lettering, brilliant colored backgrounds, heavy-gauge steel, and durable flexible baked enamel resistant to weather and stone bruises.

Eastern "A" Standard has red angle iron frame and yellow free-swinging sign with black lettering on both sides; choice of eight standard signs. Also reflectorized for extra safety at night.

Eastern Metal Signs promote safety and help prevent accidents. Economically priced, prompt delivery. Illustrated folder and price list sent on request.



EASTERN METAL of Elmira, Inc.

Elmira Heights 8 N.Y.

Just how efficient and economical is your present floor absorbent?



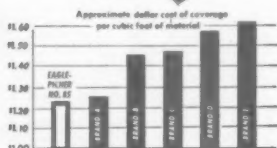
You can easily find out with this portable laboratory!

Seeing is believing! See how your present floor absorbent compares with any other! Ask any Eagle-Picher representative to show you an impartial laboratory test—right in your plant—to prove that remarkable Eagle-Picher Floor Dry is not only more efficient, but *more economical*. See for yourself that it actually gives more coverage, more absorption per dollar.

Chemically inert, and non-combustible, Eagle-Picher Floor Dry is insoluble. Its light weight provides highest possible coverage, and its light color has unusual reflective properties which brighten working areas and add to plant safety.

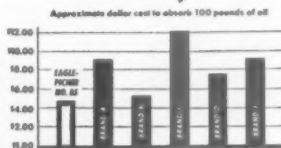
Here's proof that Eagle-Picher Floor Dry No. 85 is tops in efficiency, economy

Lower Coverage Costs



Greater coverage, greater absorption per dollar!

Lower Absorption Costs



EAGLE-PICHER INDUSTRIAL FLOOR DRY No. 85

THE EAGLE-PICHER COMPANY

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your sentence length; and avoid words with affixes, prefixes, and suffixes.

2. The more *personal references* you use, the more you will hold your readers' interest. Personal references include pronouns, names, and words that refer to people.

It is obvious that a piece of writing may use only simple words and short sentences and be well studded with personal references and still be gibberish. So, by all means, take Dr. Flesch's formula as a legitimate danger signal if it points up the difficulty of your copy. But don't assume that a good score on that formula is proof that your material is well-written for your audience.

Teamwork

A safety manual written by one person is likely to be incomplete and reflect limited experience and judgement. The material should combine the experiences of many individuals. It is a basic principle of good industrial relations to see that employees have a voice in the determination of conditions under which they work. There is less chance for misunderstanding and rules are more likely to be obeyed if they are the result of a joint effort by all concerned.

One of the best ways to prepare the contents of a safety manual is to have the job done by committee action of management and employee representatives. In this way many difficulties can be prevented. Agreement by all principal parties before a manual is published is a good example of common sense in action. It is much easier and wiser to make necessary changes before publication than afterwards.

N.Y. Conference April 1-4

April 1-4, 1952, have been announced by the Greater New York Safety Council as the dates for the Twenty-second Annual Safety Convention. Harold K. Kramer, Council President, announced the appointment of Walter A. Gustafson, chief engineer for the Lumber Mutual Casualty Insurance Company, as general chairman of the convention.

PATCH A FOOT A MINUTE



NON-SKID QUICK-FLOOR

PLACE IT . . . USE IT Right away for . . .
PATCHING -- REPAIRING or COVERING
concrete—wood, metal or asphalt.

INSIDE or OUTSIDE—NO MIXING, NO CUTTING—
NO DELAY FOR LIGHT or HEAVY DUTY!

Spreads thin at edges—TOUGH, will not break or crack — DURABLE
—PERMANENT!

SAFE! NO SKIDDING or SLIPPING

Resurfaces worn, damaged or broken floors, aisles, platforms, ramps,
stairways, driveways without delays or downtime.

SEND FOR NEW FOLDER
ASK ABOUT LOW COST PER SQUARE FOOT



RESURFACE WITH



1—Brush bone clean. Apply bonding agent. Flintz spreads like wet sand from drum or buckets.



2—Roller smooths Flintz thinly about 1/4" thick evenly over area desired. Feather edge outer brim.



3—Start rolling over newly laid Flintz a few times and let your trucks roll over it.

Also NON-SKID Wet or Dry.

READY MIXED FOR INSTANT USE

KEEP 'em rolling on LOW TRACTION FLINTZ—
the thin section surfacer that provides long lasting
smooth floors. NO BREAKING OF THIN EDGES!
Hand operated or Gas propelled trucks continue to
roll—after pulling has stopped. NO DELAYS.

LOW COST RESURFACER!

Like moist sand—FLINTZ spreads thinner, goes farther
and costs less per square foot. Provides years of hard
usage and Low Traction service.

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"Best Way" Brings 23 Safe Years

SINCE JUNE 16, 1928, no disabling injury has occurred in the Electrical Department of the Parlin, N. J., plant of The Hercules Powder Company. This group is entrusted with operation and maintenance of electrical equipment for a large chemical plant. On August 1, 1951, the exposure reached 776,719 man-hours.

The electrical department represents a total of 403 years of safe and satisfactory service. Safety Supervisor D. K. Warden of the Parlin plant gives much of the credit to the men who have directed the department for many years. They have instilled into the men of their department that the "one best way" is the safe way.

Some of the supervisory records are exceptional. Eric Jensen, electrical supervisor, who is credited with being the mastermind in the program, has been 36 years with the company. Charles Benze, general foreman, has a service record of 25 years. Bill Tibbitt, assistant electrical supervisor, has nine years service, and two foremen, Chris Grimley and Doug Miller, the "quarterbacks of the team," 22 years each.

Great White Fleet

—From page 109

stagnant water and other mosquito control measures are certain cure for "fever"; that prompt and efficient medication from field dispensers who are always available, will prevent a trip to the hospital; that modern sanitation methods such as sewerage systems, mean less time lost from the job. A half-century ago, these ideas were novel; today they are accepted doctrine.

Tropical disease prevention hasn't been the only concern of the United Fruit, however, in its endeavors to protect the lives and health of employees. Primarily agricultural, the company's experience has corroborated findings of T. C. Robinson in his publication *Gathering and Evaluating Accident Data with Respect to Farm People and Farm Workers* and J. H. Powers in *The Hazards of Farming*.

In Almirante, Panama, for example, where the company's medical superintendent, Dr. Gustav Engler, has adopted the National Safety Council's method of evaluation of the frequency and severity of working accidents, agricultural accidents have been found to be more numerous than those suffered in other departments; of these, machete injuries and accidents by mules were the most common.

Special efforts are taken to identify accident-prone individuals and see that they are separated from exposure. In this United Fruit division, the use of protective gloves and goggles, and broadening of medical service has resulted in a sharp drop in the frequency rate per million man hours to 213.9 compared to the 1949 figure of 277. The severity rate per 1000 man hours for both years was 1.4, compared to the National Safety Council's figure of 1.02 for all U. S. industries reporting in 1950.

Other types of accidents have been kept relatively low as agriculture in the tropics has become more mechanized. The company schools employees, not only in operating technique but safety practices as well, when each new piece of machinery is introduced. Moreover, as each employee is introduced to the machinery he is indoctrinated in practices which are designed to make full use of the equipment and at the same time protect him from injury. Not relying on these measures alone, all company supervisory personnel are charged with the responsibility of implementing the safety program and using whatever means necessary for corrective action.

Prompt and effective first aid and removal to suitable facilities for care and treatment have done much to keep the severity rate low. First priority on the company's communication and transportation network goes to accident cases. In many cases, airplanes are used to move serious accident cases.

The machete, however, remains the No. 1 hazard. The universal and ever-present tool of the Middle American worker, the machete is so designed that when comparatively new, the user can swing it with a loose wrist, exerting con-

—To page 154

ANNOUNCING...



NEW *BUFFALO* better-built **STAINLESS STEEL DRY CHEMICAL FIRE EXTINGUISHERS**

The NEW, durable, extremely light weight Buffalo stainless steel dry chemical extinguishers give instant protection against gasoline, paint, oil, varnish, alcohol . . . all flammable liquid fires. They are ideal for use in all types of industries and on Busses and Trucks. Simplicity of operation and extreme light weight are featured in the NEW Buffalo stainless steel dry chemical extinguisher. In use, it instantly releases a heat-resistant, flame-suffocating, chemical cloud-like stream, up to 20 feet. The insulating effect of the chemical cloud allows the operator to get to the seat of the fire. The efficiency of Buffalo stainless steel dry chemical extinguishers exceed Underwriters' Laboratories requirements.

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"Safety-Walk" pays for itself a hundred times over on catwalks, steps, ramps and walkways. This mineral-coated fabric provides perfect traction... even under water, oil or grease! Pressure-sensitive adhesive sticks on any clean surface. Available in 4 colors, many sizes and shapes.

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The Safety Library

Books, Pamphlets and Periodicals of Interest to Safety Men

BOOKS AND PAMPHLETS

Manual of Ventilation

Industrial Ventilation. A Manual of Recommended Practice. Published by American Conference of Governmental Industrial Hygienists, 1951. 162 p. Available from Committee on Industrial Ventilation, P. O. Box 453, Lansing 2, Mich. Price \$3.00.

The manual was prepared by a committee of the American Conference of Governmental Industrial Hygienists. The purpose of the authors is to provide a ready single source of the most recent data on industrial exhaust ventilation to meet the needs of official industrial hygiene agencies and to assist in standardizing ventilation practices.

The manual is an excellent source of information for safety engineers, plant engineers, ventilation contractors, and others interested in the principles and practices of controlling atmospheric contaminants and the comfort of workers.

The general principles of ventilation are concisely explained with simple illustrations in the first section. A bibliography provides sources of supplementary information to give the reader further details.

Hood design has special importance in ventilation and considerable space is given to the subject. A particular feature of this section is a table which gives the capture velocities for specific operations. Examples of the basic calculations are given and sketches are used extensively to visualize the application of fundamental principles in hood design.

A particularly valuable feature is numerous sketches in the design of hoods for many different types of operations, such as grinders, bins and hoppers, tanks, and welding.

Two methods of making the calculations in designing ducts are

discussed in detail with appropriate examples. Sketches to illustrate principles of design are numerous and particularly point out features in good and poorly designed elbows and branch entries.

This section also contains charts and tables giving essential information in design procedure, such as the friction chart for round ducts and a table giving the velocity pressures for different velocities.

Ventilation systems should be checked periodically so that the section on testing of ventilating systems is of special interest to many safety engineers. Particularly useful are the descriptions of various instruments and their limitations.

Data on the selection of proper fans and on air cleaning devices round out the completeness of information on designing ventilation systems. The publication is recommended to all safety and health departments.

Aeronautics

Comparative Safety Statistics in Operation of U. S. Scheduled Airlines Calendar Years 1938-1950. Published by Civil Aeronautics Board, Washington 25, D.C. 1951. 13 p. Free.

Mountain Winds and Their Effect on Flight. By George M. French. Published by Civil Aeronautics Board. 1951. 14 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 10c.

Chemicals

Ethylene Oxide. Published by Manufacturing Chemists' Association, 246 Woodward Bldg., Washington 5, D.C. 1951. 18 p. Price 30c. (Chemical Safety Data Sheet SD-38.)

Hydrochloric Acid, Aqueous Hydrogen Chloride, Anhydrous. Published by Manufacturing Chemists' Association, 246 Wood-

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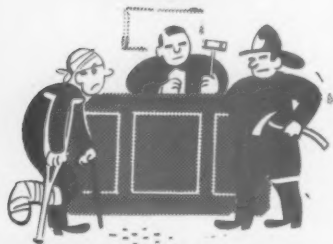


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ward Bldg., Washington 5, D.C. 1951. 27 p. Price 35c. (Chemical Safety Data Sheet SD-39.)

Methyl Chloride. Published by Manufacturing Chemists' Association, 246 Woodward Bldg., Washington 5, D.C. 1951. 17 p. Price 30c.

Civil Defense

Principles of Civil Defense Operations. Published by Federal Civil Defense Administration. 1951. 45 p. For sale by the Superintendent of Documents, Washington 25, D. C. Price 20c.

Sabotage and Plant Protection. Published by U. S. Chamber of Commerce, Washington, D.C. 1951. 25 p. Free.

This is Civil Defense. Published by Federal Civil Defense Administration. 1951. 31 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 10c. (Publication PA-3.)

The Warden Service. Published by Federal Civil Defense Administration. 1951. 44 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 20c.

Water Supplies for Wartime Fire Fighting. Published by Federal Civil Defense Administration. 1951. 14 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 10c.

Construction Industry

Safety Requirements. Published by Department of the Army, Corps of Engineers. 1951. 114 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 30c.

Dust

Size of Smallest Particles Determined in Impinger Dust-Counting Methods. Published by U. S. Bureau of Mines. 1951. 19 p. Available from the Bureau, Publications Distribution Section, 4800 Forbes St., Pittsburgh 13, Pa. Free. (Report of Investigation 4802.)

Gases

Explosibility of Mixtures of Propane, Air and Carbon Dioxide and of Propane, Air and Nitrogen at Elevated Pressures. Published by U. S. Bureau of Mines. 1951. 9 p. Available from the Bureau, Publications Distribution Section,

4800 Forbes St., Pittsburgh 13, Pa. Free. (Report of Investigation 4812.)

Health

Transactions of Joint Medical-Legal Conference. Fifteenth Annual Meeting. Administration of Workmen's Compensation Laws. Published by Industrial Hygiene Foundation, 4400 Fifth Avenue, Pittsburgh 13, Pa. 1951. 37 p. Price 50c to members, 75c to non-members. (Transaction Bulletin No. 17, 1950.)

Transactions of Legal Conference. Fifteenth Annual Meeting. Air pollution—legislative developments; Stream pollution control—legal aspects; Workmen's Compensation legislation; Occupational disease compensation laws. Published by Industrial Hygiene Foundation, 4400 Fifth Ave., Pittsburgh 13, Pa. 1951. 50 p. Price 50c to members, 75c to non-members. (Transaction Bulletin No. 16, 1950.)

Health of Ferrous Foundrymen in Illinois. Published by U. S. Public Health Service and Illinois Department of Health. 1950. 130p. For sale by the Superintendent of Documents, Washington 25, D. C. Price 75 cents. (P.H.S. Publication No. 31.)

Mines

Questions and Answers on Roof Support in Bituminous-Coal Mines. Published by U. S. Bureau of Mines. 1951. 90 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 25c.

Roof Bolting and Dust Control. Published by U. S. Bureau of Mines. 1951. 8 p. Available from the Bureau, Publications Distribution Section, 4800 Forbes St., Pittsburgh 13, Pa. Free. (Information Circular 7615.)

Tools

Use Hammers the Safe Way. Published by U. S. Bureau of Labor Standards. 1951. 12 p. For sale by the Superintendent of Documents, Washington 25, D.C. Price 5c. (Bulletin No. 127.)

Wood Products Industry

Retail Lumber Yards and Lumber Storage Yards. Standards of NBFU. Published by National Board of Fire Underwriters, 85



FATAL SHIPYARD FIRE \$150,000 LOSS, 1 DEAD

A general alarm fire which swept through the boatyard owned by _____ at East Norwalk, Conn. on April 10, caused the death of _____ and sent four Norwalk firemen to the Norwalk hospital suffering from severe burns received while fighting the fire.

The fire is believed to have started when a boat-owner, working in the bilge of his boat and using a hammer and chisel on an exhaust pipe, struck a spark which ignited fumes in the compartment.

Avoid \$150,000 sparks in your plant

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For tools subjected to impact and/or torque — specify tools of Ampco Metal.

For tools with cutting edges and gripping teeth — specify Ampco beryllium-copper tools.

For jobs around acetylene and certain other gases — specify Ampco Monel® tools.

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A few dollars invested in non-sparking Ampco Safety Tools could prevent hundreds of costly fires and explosions which strike unexpectedly every day. That's why Factory Mutual Laboratories and other safety authorities approve and recommend Ampco Safety Tools for use in hazardous locations.

Equip your workmen with Ampco Safety Tools. You earn lower insurance rates, improve workers' morale for greater efficiency — and protect your plant against paralyzing disaster. Send for free Safety Tool Catalog.

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Fastest Drying
Hand Dryer I've
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**NEW Sani-Dri Brings
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Amazingly fast drying time—plus the advantage of cleaner, more sanitary washrooms—make the New Sani-Dri popular wherever it is installed.

Now you can be sure of providing fast, efficient hand drying service . . . and save continuing towel expense. Saves washroom maintenance costs too! No empty towel cabinets to fill. No unsanitary waste containers to empty or become a fire hazard.

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John St., New York 38, N. Y.
1951. 7 p. Free. (NBFU Pamphlet
No. 47.)

MAGAZINE ARTICLES

Accident Statistics

Injury Rates in Manufacturing, 1949-50. A Graphic Analysis. (In Monthly Labor Review, July 1951, p. 40.)

Aeronautics

Aircraft Carrier Pushbutton Fire Fighting. By Richard L. Twe. (In National Fire Protection Association Quarterly, July 1951, p. 56.)

Civil Defense

You Can Tighten Plant Security with Planned Outdoor Lighting—Here's How. By J. S. Lindsay. (In Power, August 1951, p. 86.)

Commercial Vehicles

Safety in the Trucking Industry. By Charles Hock. (In Motor Transportation, August 1951, p. 26.)

Construction

Minnesota Engineers and Contractors Cooperate for Safer Traffic Flagging Through the Job. By C. L. Methoen. (In Roads and Streets, August 1951, p. 36.)

Cranes

10 Safeguards to Cut Bridge Crane Accidents. By W. E. Burbank and others. (In Factory Management and Maintenance, August 1951, p. 84.)

Dust

Control of Dust by Water Mists. By Kenneth W. Nelson. (In A.M.A. Archives of Industrial Hygiene and Occupational Medicine, July 1951, p. 28.)

Fire Protection

Carbon Tetrachloride Bulbs and Bombs. By O. J. Hodge. (In National Fire Protection Quarterly, July 1951, p. 70.)

Fire Casualty Statistics. By Halbert W. Dunn and Evelyn H. Halpin. (In National Fire Protection Quarterly, July 1951, p. 45.)

Newark Propane Storage Blasts Show Extreme Hazards Involved. (In Fire Engineering, August 1951, p. 614.)

Theory of Fire Hazard Relativity. By Chester I. Babcock. (In National Fire Protection Association Quarterly, July 1951, p. 12.)

Health

The Industrial Hygiene Program in Industry. By Frank A. Patty. (In American Journal of Public Health, Part I, p. 971.)

Hospitality for "Sidewalk Superintendents"



INSTEAD of regarding spectators as a nuisance and a potential liability, many contractors now appreciate the public relations value of providing a safe spot where they can watch operations. This observation booth was erected by Turner Construction Company during the construction of the Mellon-U. S. Steel Building in Pittsburgh.



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Completely stitched with DUPONT THREAD OF **DACRON**^{*} (Praised so highly in recent edition of LIFE Magazine). For added service, the vamp lining is made of **FABRIC OF DACRON**. This, plus the **RICO** plastic **TOLEX** lining beneath the toe caps virtually eliminates worn-out linings!

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Severe laboratory and plant tests prove that **RICO CHEM SHOES** are really the answer to the Chemical Industry's shoe problems. • After being exposed for 64 days in such chemicals as **HYDROCHLORIC**,

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Put your dust problem up to Hoffman. Our engineers have helped every type of industry to eliminate dust hazards, including abrasive toxic and explosive types. The complete line of Hoffman vacuum cleaning equipment is built for heavy-duty industrial service... higher suction, greater capacity... available with T.E.F.C. Class I and Class II motors for hazardous locations. Write for Free Survey and descriptive bulletins.



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operates 35-foot
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CANADIAN PLANT: NEWMARKET, ONT.

Occupational Cancer and Other Health Hazards in a Chromate Plant. A Medical Appraisal. By T. F. Mancuso and W. C. Halper. (In *Industrial Medicine and Surgery*, August 1951, p. 358.)

Occupational Diseases Transmitted via Contact with Animals and Animal Products. By Herbert K. Abrams and Patricia Warr. (In *Industrial Medicine and Surgery*, August 1951, p. 341.)

Outbreak of Psittacosis (Oxithosis) from Working with Turkeys or Chickens. By J. V. Irons and others. (In *American Journal of Public Health*, Part I, August 1951, p. 931.)

Toxicity of Carbon Monoxide and Hydrogen Gas Mixtures. By R. H. Moses and others. (In *A.M.A. Archives of Industrial Hygiene and Occupational Medicine*, July 1951, p. 53.)

Lighting

Safe Lighting is Everybody's Business. (In *Modern Machine Shop*, August 1951, p. 136.)

Mines

Selling Safety to New Miners. (In *Coal Age*, July 1951, p. 73.)

Rope

Rope Need Card. (In *Modern Industry*, August 1951, p. 18.)

Pressure Vessels

Design Closed Vessels to Withstand Internal Explosions. By E. W. Cousins and P. E. Cotton. (In *Chemical Engineering*, August 1951, p. 133.)

Safety Stunts

Sell Safety on a Family Basis. (In *Coal Age*, August 1951, p. 94.)

Textile Industry

Prevent Tomorrow's Fires by Good Electrical Installation Today. By Swaffield Cowan. (In *Textile World*, August 1951, p. 131.)

Tough Foremen Boost Accident Rates

FOREMEN WHO TEND to be little dictators increase the accident rate of their workers, a survey by the University of Chicago Industrial Relations Center has revealed.

Speaking before a recent meeting of the American Psychological Association in Chicago, Charles W. Nelson, research associate at the university, reported on a survey

which showed autocratic foremen had accident rates among their subordinates four and five times greater than the average foremen in the same plant.

Nelson studied the five-year accident rate of a heavy machinery assembly plant which employed five thousand workers.

The average department has six accidents a year resulting in time lost from work. Two departments, where the work was no more dangerous, had 26 and 22 accidents a year.

When the foremen in these departments were shifted to others, the accident rates in their new departments went up. The accident rate in their old departments dropped as other foremen were brought in.

The personalities and work attitudes of the foremen were classified in a psychological test which ranked them in four categories.

The foremen who ranked high in autocratic attitudes toward their jobs were those who tended to have high accident rates.

Explanation for the accident rates came from a study of ten workers who had many accidents compared with ten who had none.

Workers with high accident rates tended to become frustrated easily, and reacted toward frustration in ways that did not help in solving the difficulty. They also tended to mouth conventional safety slogans while their own actions contradicted their statements.

They admitted their own responsibility for accidents, which indicates that resentment against an autocratic foreman might be taken out on themselves. This tends to confirm earlier studies of accident-prone workers.

Workers who had no accidents blamed accidents on the speeding up of the pace of the work by foremen. Working under pressure at the faster pace resulted in accidents.

These accident-free workers kept working at a steady pace and refused to be speeded up under pressure.

The studies on safety reported by Nelson are part of a larger study of the role of foremen under way at the Industrial Relations Center.

Best friends a worker ever had!

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**Longer Lasting
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**ACID, ALKALI, and SOLVENT resistant garments
of every design. Where there's a need for worker
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For jobs requiring maximum chemical resistance and wear, StaSafe GRA-LITE is the recommended leader. GRA-LITE offers a tough, resilient fabric—as much as 40% lighter than other impervious fabrics.

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StaSafe MAROON is lightweight and long-wearing. Designed to offer protection against oils, many acids, caustics and solvents. It is also resistant to flame! Less expensive than GRA-LITE, StaSafe MAROON is a practical garment for jobs where body protection is important. Like GRA-LITE, MAROON garments are offered to you in many variations of design.

- OPEN-BACK JACKET
- SLEEVES
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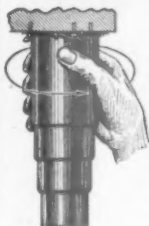
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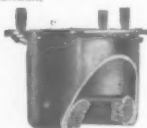
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Great White Fleet

—From page 145

siderable force without too much effort. Through continuous re-sharpening, the center of gravity is gradually shifted nearer the handle. This alters the balance of the machete and influences the control and coordination of the user, and a whack across the knee often follows.

Measures that the company has taken towards modifying the weight, shape, size or appearance of the standard machete have met with overwhelming resistance from the users. Research continues, however, and experiments are being conducted with a knee protector to be worn by workers.

Besides being one of the world's largest agricultural concerns, United Fruit operates 67 vessels, and one of the world's largest fleets of fully refrigerated steamships.

Perhaps nowhere else is the stake in safety greater than on board a ship at sea, for the entire crew and the vessel itself may become victims of an accident which ashore would have no serious consequences. It is, therefore, routine procedure on ships of the Great White Fleet to maintain the highest safety standards in equipment and deportment. Every ship's officer, as a part of his basic training, is made highly safety conscious and must become proficient in advanced first aid.

Aiding the men who sail the ships in achieving high safety standards is a traveling safety inspector who makes frequent voyages on the ships at random, periodically covering the entire fleet. On his trips, he observes the standards maintained on each ship, discusses accidents, improved procedures, and new regulations, and in general stimulates the interest of the ship's personnel in safety problems.

On the company's piers and wharves, where stevedoring operations are involved, the problem is somewhat different; the scene of action is apt to be more confusing and the personnel less skilled. United Fruit's approach here—as in other phases of operation—has been to convince its employees that it is his own life

and limb that the company is trying to protect. Enthusiastic support of supervisory personnel has helped put this idea across, as has the company's rigid policy of keeping its handling equipment in top-notch condition.

The New York Division, for example, has adopted a color-code marking system for all lifting gear which readily indicates the safe working load of the machines, slings, bridles and other equipment. Accidents that do occur, no matter how minor, are given full study, so that circumstances leading to it can be brought to the attention of those responsible and repetition avoided.

United Fruit's health and safety programs can be measured in positive terms—increased labor efficiency, reduced absenteeism, lower liability and compensation expenditures, fewer hospitalized employees, uninterrupted steamship schedules due to the absence of quarantinable diseases and epidemics of infectious diseases; and its worth has been thoroughly demonstrated over the past half-century. Men and women of United Fruit aren't content with history. Through forward-thinking application of proven techniques and development of new concepts, they're contributing mightily to making Middle America a constantly better place in which to work and live.

Paul Bunyan's Nephews

—From page 113

operation is something very different from handling it in a factory. Two or three heavy logs are hooked to a heavy cable and hauled in by powerful donkey engines. Communication between the choker setters in the woods and the engine operator are by whistle signal. The logs are hauled, crashing through underbrush, scarring the wet soil, knocking off slabs of bark against occasional rocks. The landing to which logs are dragged is merely a roughly cleared area dominated by a high spar tree which anchors the rigging for the yarding work.

As soon as the logs hit the landing, the chaser races along them to unhook the chokers (the clamped cable loops that go around the

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logs). On Crown's operation we saw two clear proofs of the effect of long, hard safety work. The chaser waited till the logs came to a complete stop before heading out to unhook, and the engineer waited till the chaser was in the clear before sending the chokers flying back out to the woods. Those choker clamps (bells, loggers call them), flying on the end of ten feet of cable, are deadly blackjacks that can crush a skull, even a hard-hat protected skull.

The process of hooking on and unhooking is repeated during the loading operation, in which the yarded logs are placed by a crane or boom.

A Crown-Zellerbach superintendent, Lou Rees, has invented a new device to reduce exposure to hazard in the loading operation. It is called the air-tong loader, and it is built much like a steam shovel. But the boom supports, not a bucket, but a pair of tongs, much like ice-man's tongs. These can be opened and closed by a pneumatic system controlled from the operator's seat, instead of having to be placed and released by hand as on a normal loader. No man has to go near the logs in the whole loading operation.

Air-tong loaders are a new idea, but we saw one operating on a relogging operation above Molalla, and the contractor was proud of its efficiency as well as its safety features.

Perhaps the most striking feature of the Molalla operation is the privately owned Forest Road which Crown and Weyerhaeuser maintain to get logs from the hills to the river dump. In its 30 odd miles, the road drops 4,000 feet, and over it roll the great trucks with their 50 ton pay loads. The trucks carry 200 gallon water tanks solely to cool the brakes, and the normal run uses two tanks full of water on a downbound trip.

Wherever the road crosses public highways, one of two crossing safeguards has been built. Either the road crosses the highway on an overpass or the crossing is signalized with lights which are actuated magnetically when a truck approaches. These are timed so that a truck running at 20 miles an hour finds the light turning

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green just before he reaches the intersection.

Finally, the road is patrolled by a privately-employed safety officer, an ex-state-trooper. He educates the drivers in the rules of the road. He enforces these rules, using his full authority to flag down a badly loaded truck or one driven in violation of the rules. He can file charges which, in the more drastic cases, may result in the barring of a driver from the road. Since trucks of several lumber companies and their contractors are constantly using the road, the patrolman's job is complicated, but tremendously important.

Safety for Crown's timber operations is under the direction of Ted Kepner, but at the individual operations, the "super" is directly responsible. At Molalla, for example, the load falls on Al King, a husky, rawboned, roughly dressed man who learned logging the hard way. And if he has such modern aids as a two-way radio-equipped automobile, he is still primarily the bull of the woods who knows how the job ought to be done and, in a moment's inspection, can spot bad workmanship, which includes violations of safety rules.

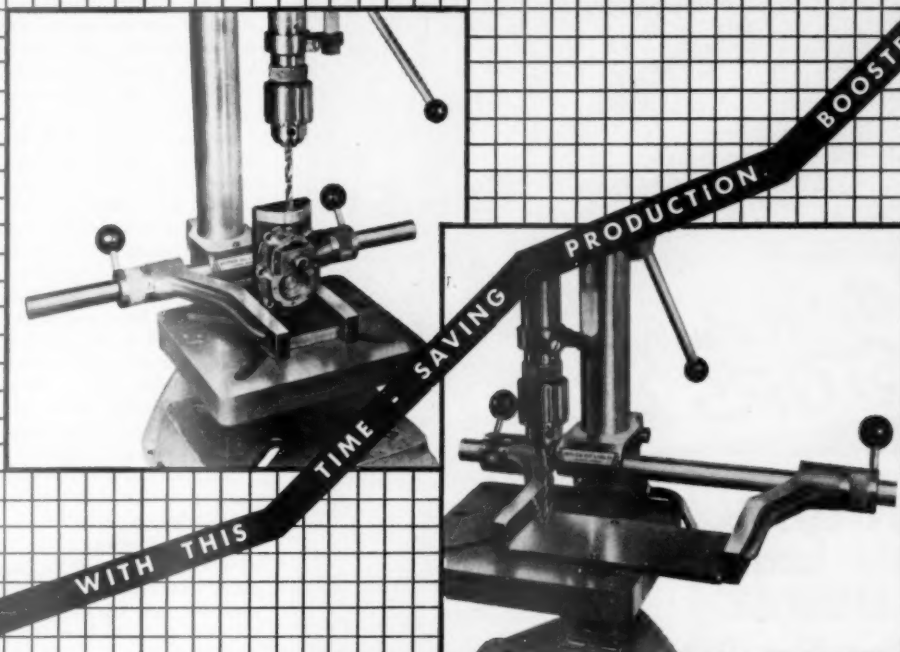
Our next stop was Camp Baker, a Weyerhaeuser Timber Co. installation near Spirit Lake in Washington. Here, though we still find some home-guards (men living at home while working in the woods), a large proportion of the men live in bunk houses, and the day starts early with a yard full of men loading into the crew busses.

Up in the hills we saw our first big "cat" show—an operation where the yarding is done by tractors hauling a short trailer rig called an arch. One end of the logs is hoisted up under the arch, and the cat hauls them in from the woods on a track that it had earlier smashed through the brush with its own bull-dozer blade.

I rode one round trip on a tractor hanging on to a gas-tank cap as one track drove deep into the wet mush while the other broadly climbed two-foot stumps. I envied the operator who had his controls to hang on to.

From the seat of the tractor, I saw a good example of safe choker setting work, which had

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been described to me by George Joy, Weyerhaeuser's safety man for the area.

The old tradition in the woods was for the choker setter to "hook on while they're hot"—to charge in while the yarding equipment was still moving, grab a swinging bell, hook it around the log, and run like mad as the log started to move.

My operator backed his tractor and arch against a log and stopped. Then, and only then, the choker setter came out of the brush, hooked on, and then got in the clear before the tractor started forward.

Weyerhaeuser is efficiency-minded. It likes fast work and high production. But it is hammering into its woods' crews, including choker setters, the necessity for allowing a margin of safety when the heavy logs and yarding equipment are in motion.

Weyerhaeuser's timber around Camp Baker is known as a tree farm—a precise legal term in this day of conservation. Under terms of an agreement with the government, forestry methods are being practiced that guarantee a perpetual yield of timber from this land. There is no more wasteful stripping of the land and leaving it to burn. As Clyde Corman, logging manager, explained to us, cutting is done economically, regeneration is encouraged, fire protection is maintained. When present stands are gone, new timber will have grown to cutting size. Weyerhaeuser even has provided for public recreation needs, setting aside camping areas in scenic spots, where fire protection is available easily, where the campers won't stroll into areas where active logging is going on.

Our third day was on Long-Bell property out of Ryderwood—a model logging town of a generation ago which will be a ghost town before this winter is over. For perhaps 20 years, beginning in a few months, the timber back of Ryderwood will be the domain of a small group of company foresters, working on roads, protecting against fire, applying scientific techniques of pest control and stimulation of regeneration. Then the area will be back in produc-

tion, but the present town of Ry-
derwood will be gone, the round-
house and freight yard will be
weed-grown rust. Smaller camps
will come to life in the 1970's, and
gravel roads will replace the rail-
road in the hills. And that area
will be, after a lapse of time, on a
sustained yield basis.

Ryderwood gave us a good look
at railroad logging—a rapidly dy-
ing type of work. The large freight
yard already contains much defunct
equipment, but the last clean-
ups of timber in the hills use the
old workhorses of the woods—the
off-balanced Shay locos, the gi-
gantic electric skidders that op-
erate in certain yarding situations,
the lines of flat cars, and the im-
pertinent modern gasoline speeders
that gallop the winding right of
way, that career blithely across
trestles where you look down at
your feet and see, below them,
creek beds 500 feet below.

Dispatching on a logging rail-
road is something to amaze a man
who has stood beside a centralized
train control setup on a major
railroad or even has watched an
automatic block signal system in
operation. On the logging road,
telephone boxes stand beside the
track every mile or so and at every
junction. Each train or speeder
calls in at each phone. The dis-
patcher back at Ryderwood has a
board-mounted map of the rail-
road before him, and he spots the
position of each piece of equip-
ment by sticking pins in the map
at the proper places. This primi-
tive system permits him to tell the
engineer whether or not it is safe
to proceed to the next section of
the railroad.

But it isn't wise to underesti-
mate the efficiency of the Ry-
derwood operation. Electric power is
used extensively in the woods—
power generated in a power plant
at Longview on the Columbia,
which uses as fuel the waste wood
and sawdust of the great Long
Bell sawmill. The great skidders
are heavy, unwieldy pieces of
equipment by modern standards,
but they haul the logs in as well
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Another example of Long-Bell
efficiency is the state of the land-
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edition of Accident Facts.

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an outsider like myself, any logging operation seems the wildest confusion and litter—and a landing is a place in which confusion seems confounded.

But what people like Dan Adair mean by good landings is just what a factory safety man means when he talks of good plant layout—room enough to do the job, a practical arrangement, and—in the woods—a relatively level surface.

To the guy like me, a landing is just a small cleared space by a road or railroad track. If it is in active operation, it is red with the churned mass of mud and fresh bark and wood fragments. A deserted landing turns grey as the mud dries and the old wood turns the color of old waterfront pilings. Only after some years will the landing turn green with young trees and blaze with the glory of Scotch broom and rhododendron.

I don't mean to be cynical about those landings at Long-Bell—I believe implicitly what Dan and the Ryderwood people told me about their quality. But good plant layout means one thing in a distillery, something else in a foundry, something yet again in heavy construction—but compared to any of these, a well-layed-out logging landing is a fair imitation of a nightmare.

At Long-Bell we saw the operations most typical of logging to the layman—falling and bucking. Here the falling was being done with power saws, the bucking by hand saws. And if there is something spectacular about the actual falling of a great forest giant, careful calculation of angles, the warning shouts, still, some of the old-timers will tell you that the unspectacular bucking (sawing of the tree into log lengths) is the more skilled and sometimes the more dangerous operation.

For example, the buckner whose picture appears with the article had a fallen tree which lay in such a position that it was likely, when cut, either to split badly or to roll down a slope. The first possibility meant a heavy loss in good saw lumber. The second meant serious danger to the buckner.

This buckner had all the possi-

bilities in mind. He made his cuts judiciously, on top, underneath, to one side. When the log was finally sawed through, the two ends jerked a few inches, the two faces met, and held each other.

Incidentally, you will hear always in logging of the problem of falls—just as you hear of falls in every industry which studies its accident problem. But I had to get off the roads to find our Long-Bell fallers and buckers. My cork (logging for caulked) boots with their inch-long spikes has seemed silly on gravel, but once into the timber I learned that in the confused litter of logged land, the only good walking is the tops of logs—logs drenched in rain, logs alternately bare and capped with ragged fragments of bark. And these log pathways sometimes lead across deep gullies whose bottoms are an indescribable mass of broken limbs, jagged rocks, tangled briar.

Then, if you are a greenhorn, you plant your feet deliberately, enjoying the tight feel of your footing when the corks bite deep. In doing this, of course, you provide merriment for those superior souls who are real loggers—who move lightly and swiftly over the same route you take so tediously.

But they do fall—and falls loom large in the picture of accidents in an industry which has a high over-all frequency rate.

After we'd done the woods, Long-Bell's safety man Bob Miller and Ryderwood's super Charles Cory took us to see one of Ryderwood's monuments to progressive management—the MAP. In a small house near company offices it stood, filling a large room—the giant relief map of the whole property which had been made by hand from the first surveys—a map over which a generation of logging superintendents and their staff had pored, planning railroad grades, lining up yarding routes, deciding both major strategy and minor tactics in translation of timber stand to merchantable lumber.

Here are some general comments that apply to all the logging operations we saw. First of all, logging is still proud of its Paul Bunyan tradition. You see that pride in the way the good com-

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panies feed their men, in the rough talk and rough dress, in the unassuming strength of the top men and the simple, direct trade slang of the woods, buck, fall, bull-buck, whistle punk, bull of the woods, cat show, skidder, high lead, hook tender, choker setter, donkey puncher, rigging slinger. They tell you, and it's almost true, that the roughest dressed guy on the property is probably the super.

Costume is completely functional. Suspenders of a broad, substantial type, or the least likely to let pants fall on a job in which a man could be completely unembarrassed if his pants fell, but he might be seriously restricted in leaving a spot in a hurry—and leaving certain places in a hurry is a frequent necessity in logging. Similarly, pants are "staggered", i.e., cut off fairly high on the calf of the leg, so that they are less likely to be snagged while walking or running in brush.

Shoes for the logger are highly standardized. To support the long corks (caulks), special soles of extra strength are needed, and the logger today pays \$30 to \$50 a pair. He would rather work nude than work slick shod.

In one respect, woods' fashions have been revolutionized in the last few years. The hard hat has arrived. Governments of both Washington and Oregon demand their use. Companies enforce the rule toughly. In my three days on three different company properties I never saw a man without a hard hat except two or three truck drivers who worked for contract haulers. And the safety men I was with made it clear that even such men would not last long without coming in line and wearing their hats.

The stories of the introduction of the hard hat are legion and fantastic. Every possible objection had been raised to their use. They were uncomfortable, men said, they were heavy, they were hot, they were cold, they were sissy. So sometimes a branch hit a man—so what? Logging was tough.

But a few crusaders (one of them was Dan Adair, my guide this trip and formerly supervisor of safety for the State of Washington) took hats to the camps.

They persuaded a few stray men to try hats. Helped by a number of those God-given coincidences, they soon had a file of case histories of healthy men whose hats had saved their lives.

Gradually, by a process that is worthy of a careful historical study, opposition crumbled, state codes were adopted, companies backed the play, unions went along.

In Oregon and Washington at least, the hat is everywhere in the woods—and it is there to stay.

I think—and there are some logging men who agree with me—that the victory for safety that the hard hat in the woods represents is symbolic of other victories to come. Progressive logging companies are improving their accident records—and becoming more conscious of the need for greater progress.

Fire Detection

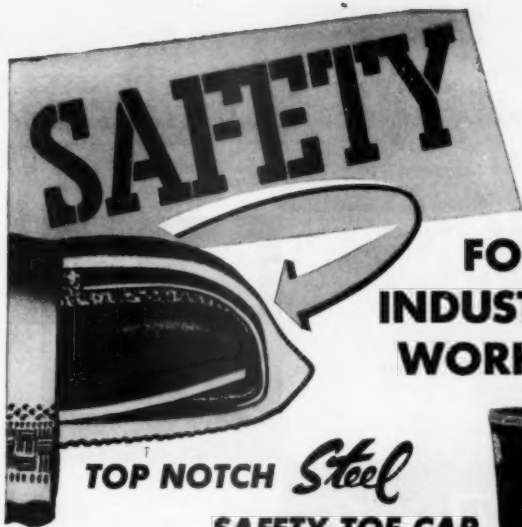
—From page 101

are designed to detect only unfriendly fires.

There is no *one best type* to take care of all fire protection problems. Each type has its own special application, and each set of hazards and conditions requires its own particular remedy.

First, there is the old well-known fixed-temperature device. There are many different kinds of these, but they are all designed so that an alarm is initiated when a predetermined or fixed temperature is exceeded. Although these are the oldest of the automatic fire detectors, they are by no means outmoded. Some of them are of a self-restoring type and therefore may be tested at will. Others (of the melting type, for instance) are destroyed upon operation.

The most commonly used and most generally applicable automatic fire detection system is a rate-of-rise system of the pneumatic tube, line type. Such systems consist of continuous lines of small copper tubing containing air at normal atmospheric pressure and temperature. This tubing is run in loops or circuits on the ceilings of protected areas. Each such circuit terminates in small air chambers, the walls of which are pressure-actuated diaphragms.



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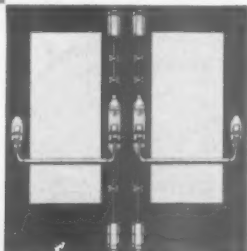
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Upon a rapid rise in temperature due to a fire condition, the air in the tubing becomes heated and expands, causing these diaphragms to bulge and make a contact which initiates an alarm. A slow rise in temperature, such as is caused by heating systems, does not affect the diaphragms because the pressure is equalized by tin breather vents which permit a slow seepage of air in and out of the tubing.

This system can be easily tested without destroying the fire detection devices. It may also be supplemented by fixed-temperature devices to take care of places where sudden rises in temperature may be normally expected. This type of system is easily and inconspicuously installed in any interior. It has protected the White House since 1936 and is being reinstalled as part of the White House reconstruction. It protects many of our vital interests, such as atomic energy installations, medical supply warehouses and service hospital buildings.

Another rate-of-rise fire detection system employs thermopiles. Each thermopile consists of a series of thermocouples which have the property of converting heat energy directly into electrical energy. These are arranged so that one junction of each thermocouple is placed behind a shield, and the other, though adjacent, is exposed to room temperature. The outside junctions are enclosed in a parabolic reflector which concentrates any heat upon them and they therefore respond very quickly to changes in temperature while the shielded junctions do not.

This causes a temporary temperature difference between the hot and cold junctions sufficient to produce a current flow capable of initiating an alarm. These thermopile devices may also be tested at any time without being destroyed. Their value is in their extensive range, and in their ability to detect fires despite forced draft conditions.

There are many spot-type contact making fire detectors available. These may be of the pneumatic or bi-metallic type. Such devices are installed on the ceiling of the protected area on a defini-

—To page 200

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Vaseline Sterile Petrolatum Gauze Dressings

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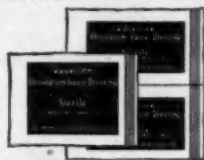
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To Open

foil-envelope, cut with scissors along dotted line on back of envelope...or in an emergency, tear off seal carefully below this line...end of dressing is pulled out of envelope with one hand (use forceps, if handy), while envelope is held with other hand.



Cover damaged surface and area two inches beyond with two layers or more of petrolatum gauze dressing... then apply sterile dry bandage to keep clean and hold gently in place—using first-aid principles... have injury examined by a physician.



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Skidproof overcomes the slipping hazards of ordinary wax—makes rubber burns, stains and surface damage easy to get off—won't crack or check—won't discolor any floor surface. It's the finest surface finish available to keep floors shining, beautiful and safe!



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HOLCOMB SAFETY GARMENT CO.

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Where Men Can't Go

—From page 95

conveyors and related equipment generally and specifically. It speaks of general design this way: Guard driving machinery; don't load beyond rated capacity; design mountings in such a way that catching sharp edges or chances of pinching are minimized.

Keep lubricating points piped out to safe locations; enable adjustments to takeups or drives to be accessible. Use anti-backups and anti-runaway mechanical safety stops on slopes as protection in the event of chain breakage. Use load brakes as overload cutout protection. Enclose counterweights. Use guard rails. Interlock conveyors electrically to prevent jamming and danger which occurs when one conveyor shuts down and the one feeding it might still be operating.

Watch design of transfer points from one conveyor to another; here lies the possibility of pinch point and dangerous free materials. Make sure supports, particularly for portable conveyors, are substantial to support without tipping under loads.

The code covers clearance and accessibility. Leave space for maintenance, for operators. Provide visibility so oncoming loads may be seen. Up high, provide guarded catwalks. Wherever wall or floor openings occur, guard well with rails; these are dangerous points.

Provide inspection doors and peep holes where conveyors are enclosed. Make proper provision for crossovers, aisles, passages, leaving ample clearance and headroom. With paint, signs and/or lights define clearly these ways of travel.

Under inspection and maintenance, the code suggests the importance of lubrication on a regular basis. Keep takeups properly adjusted, examine periodically cottered connections and couplings for weaknesses. Replace worn parts.

The code advises that related structures such as tunnels, pits, hoppers, chutes, where conveyors are used should be considered in the over-all safety design.

General safety rules might be



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on ruptures, strained backs and smashed fingers... fail to use the Prescott Safety Tool when closing hopper bottom car doors with latch-type locks. Write today for free folder which shows the dangers of old-fashioned hand, foot and bar methods and how the Prescott Tool makes the job safe, easy and fast.

The Trumbull Mfg. Co.
WARREN, OHIO

built around these admonitions. Obey rated load signs. Mark stop and start stations clearly and make them easily accessible and where they provide a clear view of the conveyor. No riding on conveyors; no stepping on conveyors. Only regular maintenance crews should service conveyors. While servicing, stop the conveyor, and lock out normal starting push-button stations. In case of overload cutouts, locate jam and use lockouts before starting or servicing.

The code refers specifically to its relation and dependence on other codes. These include those of mechanical power transmission, electrical, elevators, dumb-waiters, escalators, cranes, derricks, hoists, buildings, bridges, walkways, floor and wall openings, railways, toe boards, dust explosions and boiler construction. The ASME, ASA and ASTM code numbers are listed therein.

Turning to specific conveyors, the code suggests briefly: A smooth cover should be used under slat conveyors where there is space between slats to prevent shearing hazards; safety provisions for a man who must ride on a tripper on a belt conveyor; totally enclosed bucket elevators; hand rails, smooth sides, guard plates along chain conveyors will protect hands, feet and clothing; stops are needed at open ends of gravity conveyors; try to eliminate all pinch-points on live roller conveyors; substantial guards with sides under overhead trolley conveyors are desirable; use solid covers on screw conveyors when possible.

The code is a good start. Currently, it is being revised and suggestions are definitely hoped for. The scope is being carefully gone over and more clearly defined. General safety and particularly specific safety provisions will be augmented. Manufacturers and users of specific types of conveyors are now studying how to improve and add to the code.

The work has been divided amongst the specialists and then will be brought together again for coherence. For example, the great field of portable conveyors is being closely studied by that industry and much more will be available on this subject when the code is next revised.

2. Over-all Safety Aspects

Here let's leave the code and discuss the broad aspect as to how far we should go in our safety measures. A friend of mine says there's a difference between "fool-proof" and "damnfool" proof. We don't fence in our highways and streets in order that trucks and autos won't hit people; we use lights, signs, curbs, painted lines. We can go only so far to protect operators from machine tools. They must use the safety features.

Some elaborate guarding is economically as unsound as fencing the highways right at the curb. Sometimes the initial costs might be 40 per cent of the entire installation and, further, greatly limit the advantages and flexibility which could be obtained by the conveyor.

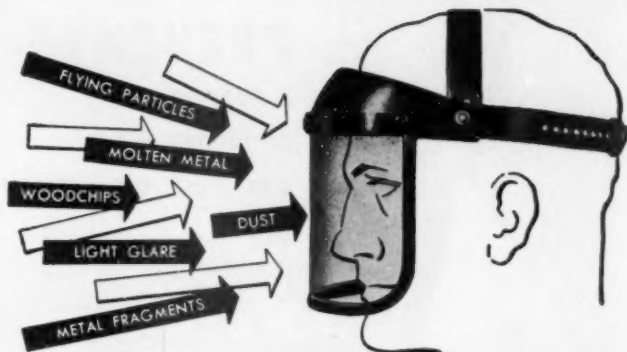
The question might be approached in another way if we say that conveyors as a whole have meant more safety in industry. Materials are brought to and taken away from operators. Lifting and carrying are lessened. The operator, therefore, need not leave his station and walk into trouble elsewhere; nor need he join that unfortunate group who sustain lifting injuries.

Conveyors eliminate manual handling to the degree they are made use of. Material coming to the operator mechanically eliminates momentary inattention to the machine he is operating. Conveyors help good housekeeping because they are installed on definite lines of flow and their continuous nature cuts down piles of subassembly goods in process.

Less manual handling means less fatigue with its tendency to mistakes. Working along a conveyor at a constant uniform speed, being fed material on an even flowing basis, operators develop a rhythm in their work which makes for sureness and few mistakes.

3. Built-In Safety

Users and manufacturers must work together to reach the right balance of safety in conveyor systems. Greater consumer safety consciousness is a must. In any competitive industry there are those who skimp on safety features to have the lowest price. Users must study bid specifications and



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It has shielded thousands of eyes and faces from serious injury. It's featherlight, easy to clean, and has replaceable visors in various lengths, in clear and in shades of green.

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For Resistance Welding, Metal Finishing, Woodworking, etc., with visors of clear plastic .020", .030", and .040" thick, 4", 6", and 8" deep; type J-1 shield with headrest, type C shield with elastic band in back.

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demand that safety features be outlined and described and then adhered to. They should consider carefully before they rule out a supplier because he includes what others might call excessive safety features. Get copies of this code and make sure the conveyors you want incorporate the codification you feel you need.

Users and manufacturers in working out a conveyor system plant layout should carefully consider the over-all safety aspects of the immediate plant. Has the system hemmed in workers too much, creating fire hazards? Leave normal exit facilities. Watch wall openings and floor openings as to their effect on both sides of walls and ceilings.

4. Safe Operation

Finally, just a few suggestions for safe use of conveyors. When you have bought and installed a conveyor, even though you need it badly, don't start using it for production until it is formally turned over to you by the manufacturer. The systems must be run, the bugs must be taken out of the automatics, clearances between guides and moving parts may need to be relieved. It's hard to design and build a conveyor system that does not need any field adjustment after shipment and the variations in the users' plant are guides and moving parts may most accidents have occurred at this point in our experience as a manufacturer.

If a conveyor is being serviced and is shut down, as it should be, watch that the work is not being done too closely to another moving conveyor. I can think of a number of serious accidents that have occurred where the serviceman, absorbed in this work, leaned back into another moving conveyor or a slowly moving load came along and squeezed or pinched him against the stopped conveyor or a wall opening.

Watch loading of conveyors. Be sure the hookup is secure if it's a hooking job. If materials are piled on the conveyor, watch that they aren't top heavy.

Remember clearances between conveyors and walls. Clearance for a man to walk through should, wherever possible, be based on the

largest load carried on the conveyor.

Authorize certain persons to operate certain conveyors just as you would a machine tool. Keep others from starting the systems. Speed variations in conveyor lines should be entrusted to one who understands what effect these changes might have on the system as a whole.

If overload cutouts are continually operating or shear pins continually shear, contact the manufacturer of the equipment and find out the cause of jamming. Check by means of a dynamometer to make sure the system is not overloaded. If the design is light, get it heaved up before trouble starts.

Have a number of push-button stop stations along a conveyor line. Insist on electric ground wires, particularly on portable conveyors and systems operating in the outdoors or in damp conditions. Insist on heavy high-quality electrical equipment. Stay on the high side of electrical codes.

Conveyors can be used safely and their use has contributed substantially to the industrial workers' safety. If you set up definite rules, be sure all are acquainted with them. If you insist on high safety specifications in the conveyors you buy, the systems will be safe.

Occupational Vision Conference Nov. 1-2

An occupational vision conference will be conducted November 1 and 2 in Atlantic City by Rutgers University.

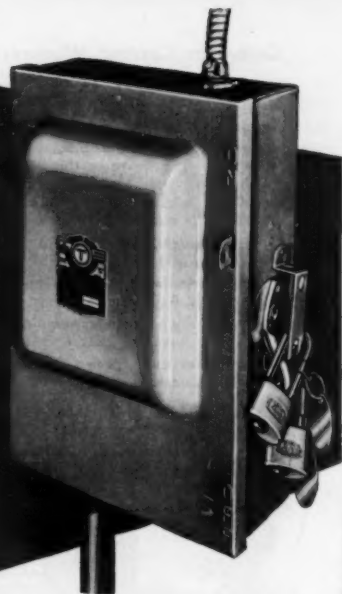
The two-day program will emphasize the importance of good vision to high industrial efficiency. Attention will be focused upon the new concepts in lighting, functional color for better human efficiency and safety, occupational vision hazards, occupational eye injuries, relation of visual efficiency to motion and work, and establishing a workable visual program.

Management leaders, personnel directors, safety engineers, industrial nurses and physicians, plant ophthalmologists and optometrists are being invited. While this conference was developed primarily for New Jersey industries, out-of-state concerns may participate.

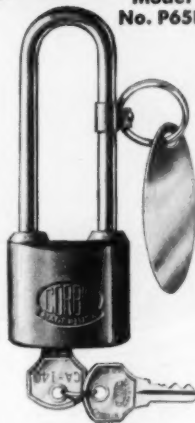
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**Model
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Corbin No. P65R Padlocks are made especially for this purpose. They have a solid die cast case. The height of the shackle opening is 2 3/4 inches. The disc tumbler mechanism has 200 possible key changes. If desired, they can be keyed alike or master-keyed. A metal tag for employee's name or number is securely attached to the hardened-steel shackle.

We will gladly help you work out a Personal-Safety system based on your specific needs. For further information, without obligation, write to:



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Calendar Contest Winners for August 1951

First prize in the National Safety Council's Safety Calendar Contest goes this month to R. Cheyne-Stout of Orlando, Fla. The theme in this contest was beat the heat. Mr. Cheyne-Stout's rhyme was adjudged best of all those submitted. It was:

*His weight, pate, and gait
laid him low.*

Second prize went to J. G. Tomson, Christchurch, N. Z., for this line:

*Playing safe keeps your
handicap low.*

Third prize was awarded to Wilma Patino of Columbus, Ohio for the following:

*In both golf and good sense,
Tom scores low.*

Thirty \$5 awards were issued to:
Mrs. Gee Vee Marlow, Spokane, Wash.

Mrs. Joe Savely, Black Hawk, S. D.
Mrs. Grace K. Cole, Teacher, Finletter School, Philadelphia.

Edgar C. Hastings, Principal, Lafayette Jr. High School, Uniontown, Pa.

M. H. Chambers, Ardmore, Pa.
Mrs. K. Leckie, Teacher, Portland, Ore.

Eilene Harris, Student, Eugene, Ore.
Mrs. H. W. Guenther, Tahlequah, Okla.

Mrs. Guy Young, Dexter City, Ohio.
M. Belle Hanton, Holtzmann, Wisc., Shepard & Kelly, New York City.

Michael Paul, Brooklyn, N. Y.
John Gregory, Clay, N. Y.
Mrs. Helen M. Condon, Normandy, Mo.

Martha W. Mathews, Mobile, Ala.
Harry Krug, Kansas City, Mo.
Mrs. Marion Courtenay, Russellville, Ark.

Mrs. Jennie V. Snyder, Beachwood, N. J.
Mrs. Elvenia Dusek, Dardanelle, Ark.
Mrs. Charleen A. Babcock, Hydesville, Calif.

Mrs. Ned Fish, Columbia, Mo.
Mrs. C. H. Stone, Macon, Ga.
Miss Estelle H. Lorquin, Public Stenographer, San Francisco, Calif.

Mrs. Helen S. McGinley, Northbrook, Ill.

L. A. Hughes, Tupelo, Miss.
Eileen Moss, Idaho Falls, Idaho
Betty Terrell, Paducah, Ky.
Mrs. Lois Pacey, Falmouth, Mass.
A. J. Schoendorf, Editor, House Organ, California Fruit Exchange, Sacramento, Calif.

Jim Lynch, Planning Dept., U. S. Rubber Co., Indianapolis, Ind.

H. Pickering, Quarry Foreman, Alpha Portland Cement Co., St. Louis, Mo.

Stranger: "How long has this ghost town been dead?"

Native: "Not long, I guess. You're the first buzzard I've seen."



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WITH
SAFE-T-SAN**

A SUDDEN SLIP may mean painful injuries. Avoid danger in slippery floors that may mean disabled workers, lost time, costly hospital bills. Use Safe-T-San Non-Slip Floor Polish, which reduces slipperiness of any flooring material while it beautifies and protects the finish. It's easy to apply. Write today for sample of Safe-T-San.

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Huntington, Indiana • Toronto



**INNOCENT
LOOKING BARRELS**



**ARE OFTEN
DANGEROUS BOOBY-TRAPS**

Williams Barrel Band Safety-Set removes dangerous nails and staples; sets the top band so it cannot come off. A hardened tooth pierces the band and locks it to the staves. Increased safety at low cost. Saves time, saves barrels, claims, waste. Years of service. Order yours today. Successfully used by all types of plants.

DON E. WILLIAMS CO.
307 - 16th St., Moline, Ill.



Hope for Handicapped

—From page 99

first year of his two-year work for his Master of Social Work degree. We must hand it to that chap. True, we helped him with tutoring and with readers, but he set an example for people who have two good eyes. He has intestinal fortitude, or whatever you like to call it.

Another case is that of a young chap born near Montreal. He was injured when a Bren gun carrier traveling at high speed broke the side track and he was crushed. He was badly jammed up and lost his sight. After a year or more in hospitals he came to us. He was six feet tall and as blond as a Scandinavian, explaining that his mother was Irish and his father was French. He spoke some English and wanted more education.

We tutored him and in 18 months he had credits for university. He obtained his B.A. degree in three years and today, is a fine, upstanding gentleman. He can

make a much better speech than I can, in either English or French, and is on our staff in the Quebec Division of the Canadian Institute for the Blind.

These examples indicate courage, fortitude, and willingness to make the effort when the opportunity is presented. These are the prime factors. I have had people come in to me with a little vision. Proper vision is 6 over 60—being able to see 6-inch block type at

60 meters. Some of these people can see 1/4-inch block type at one foot, and they are what we call "industrially blind." That means having enough vision to do certain essential work. Some people have come to me complaining about this borderline vision, and I have said, "I would give devil of a lot for such vision as you have. Instead of complaining, you should be making good use of it."

That may sound rather tough

VISIT OUR BOOTH
No. 48
STEVENS HOTEL
NATIONAL SAFETY
CONGRESS



1933 SERIES — 1 1/4" diameter, hard glazed enamel, heavily gold plated pin and safety lock catch, \$9.00 doz. (plus Fed. tax).

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MB-913 light short rubber boots.



48 Hot Mill band top.

182 leather palm.



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Utility Work Suits — Neoprene, Buna-S, synthetic rubber.



"Duke" — Buna-S coated, lined, double-back coat.



Industrial Aprons — all types, sizes.



7120 White canning apron.



909 Knit wrist Neoprene coated.



922 Neoprene coated gauntlet.



211 asbestos glove. 11" length.



550 steel ribbed leather.

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- Complete Stocks
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Everything You Need, Including—gloves; aprons; boots; rubber, asbestos and waterproof oiled clothing; eye savers; sleeves; foot guards; respirators; welders' helmets; face shields; acid containers; leggings; finger guards and many other items.

Dunn Products

1216 WEST MADISON STREET
CHICAGO 7, ILLINOIS

ASK FOR
CATALOG

OF ENTIRE LINE

48 value crammed pages! Complete head to foot protection for industrial workers.

VISIT
US IN
BOOTH
23

but we want to encourage them to stand on their feet. It is impossible to rehabilitate people who won't. They have to help themselves; then we step in and give them just as much help as they need, but not too much. Some, naturally, need more than others.

In February of this year we had a big rehabilitation conference with representatives of our Federal government — three of the ministers and a number of representatives from the various departments. All ten provinces were

represented, as were 16 national health and welfare organizations in Canada. The idea was to outline a comprehensive rehabilitation program, both physical and vocational.

That pattern is laid down now. The Advisory council is in the process of being appointed and we hope to see the day when good Canadians who have been handicapped are put back into that self-respecting position of being able to stand on their own feet. It may take a year, two, or even five years

to get the thing swinging. But, no matter how long it takes, it is worth doing.

I see paraplegics, those who, especially in the war, got spinal injuries and are paralyzed. In the first great war we put them into hospitals to dry rot and they stayed there until they died. Not so in this war. A clever United States business man on the West Coast suffered a motor accident and became a paraplegic. He invented a light collapsible wheel chair.

That wheel chair has revolutionized the whole care of the paraplegic. Although there are 200 paraplegics who were in the Canadian army none is in a hospital, except for brief visits for "running repairs." They are active. They go from their homes to their cars and slide off the seat of the wheel chair on to the seat of the car. The chair can be folded to take up little space in the car. There are hand controls and a man can get out of the car and go into a hotel. He can go to dinner with friends, to his office, or to the theater. Isn't that better than

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WHY WAIT FOR AN ACCIDENT?

Write today for descriptive literature or a trial pair of Sankey's Knee-Shin or Shin Guards constructed of light weight, durable, strong fibre with soft sponge rubber padding.

ELLWOOD SAFETY APPLIANCE COMPANY
219 SIXTH STREET ELLWOOD CITY, PENNA.



How Safe Are YOUR Employees?

Here is Industrial Safety at a Big Saving in Time and Money. Just the way they like it with Color, Humor and Interesting Pictures that impress.

A continuous "safety reminder" that keeps employees alert to safety.

Write for samples and prices.

FRANK O. SHOEMAKER, Publisher
3641 S. IRON ST., CHICAGO 9, ILL.

Sell Safety to Your Employees by Publicity

— It Works

vegetating in one room for the rest of a shortened life?

We who have lost our sight are very keen on the prevention of accidents and illnesses that might cause blindness. While we make the best of the road ahead, we are not recommending that anyone travel it unnecessarily. You would find it tough and some of you might not be equal to it.

Early in the war I had a call from a plant in Toronto. The safety engineer was worried. The plant had mushroomed on war production. Inexperienced help came in large numbers, all with the best intentions but too little acquainted with the rules of the game. Management became disturbed over the number of accidents and found many of these traceable to not wearing goggles or face masks. So they asked me to come out.

The first person I talked to was the foreman. Then I went through the plant and found two or three men with goggles or masks under the bench instead of on their faces.

"Why?" I asked. "What is the procedure?"

"We tell the men to go over there to that bin and pick out a pair of goggles," the foreman answered.

"How do you purchase the goggles?" I asked.

"By the gross—maybe 10 gross at a time."

"That's fine," I said. "Have you ever seen anything that varies so much as the eyes and the shape of people's faces? How many people do you think can fit them-

selves comfortably from a bin of stock goggles? Fifty per cent, perhaps.

"If you will go into the matter carefully, I think you will find that men are not wearing their goggles because they cannot find a pair that fits comfortably and it takes time to adjust them."

It is not sufficient to censure employees for not wearing goggles. What happens in your plant when a man is hired and he is wearing glasses for some eye defect? Does he wear goggles over

Dunking Stations!

ANSWER YOUR PLANT
SMOKING PROBLEMS



Unit No. 2 for mounting on walls, columns and posts.

Unit No. 1, (not illustrated) same as unit No. 2 but with upright and base for use on floors, aisles, etc.

Send for illustrated folder which gives complete details.

**Standard Industrial
Products Co.**

DEPT. C

1710 Main St. Peoria, Illinois

FOR CLEAR Projection OF NATIONAL SAFETY COUNCIL SOUND SLIDEFILMS



USE THE NEW **DUKANE**
SOUND SLIDEFILM PROJECTORS

FOR BOTH KINDS
OF SLIDEFILM!

AUTOMATIC:

A 30-50 CYCLE INAUDIBLE
SIGNAL ON THE RECORD
AUTOMATICALLY ADVANCES
THE FILM IN COMPLETE
SYNCHRONIZATION WITH
THE RECORD

and MANUAL

THE PRESENT TYPE
OPERATES
MANUALLY FROM
AN AUDIBLE
SIGNAL ON THE
RECORD

- ★ SOUND SLIDEFILM PROJECTOR
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- ★ 3-SPEED RECORD PLAYER



FILL IN • TEAR OFF •
MAIL COUPON NOW!

Send FOR
FREE FOLDER
TODAY!

DUKANE CORPORATION

Dept. SN 10-1, St. Charles, Ill.

☐ Please send FREE Descriptive Folder on large and small
30-50 AUTOMATIC SOUND SLIDEFILM PROJECTORS.

NAME _____

ADDRESS _____

CITY _____

STATE _____

Dukane Corporation
Est'd as Operadio-1922

his glasses? What happens to his efficiency if he doesn't wear his glasses? You should be interested in the economics of the deal and in efficient, satisfactory work.

In my experience, I have found that if an individual is anxious enough to do something and has the spirit and courage, he will find a way. There are many people who have the spirit fundamentally. In others it must be inspired.

There are some whom you will never be able to awaken out of their lethargy. Don't let it dis-

courage you. I have seen people that at first sight I would write off as hopeless liabilities, physically, but I have found in them a spirit that refused to be beaten. I have seen others with the best prospects of success, yet they have failed.

I am going to conclude by quoting from William Ernest Henley's poem, *Invictus*, written in his blindness:

*Out of the night that covers me,
Black as the pit from pole to pole,
I thank whatever gods may be
For my unconquerable soul.*

Army Film on Safety Wins National Award

For developing the film, "Once Too Often," the National Committee on Films for Safety has awarded the Army a special citation.

The award was presented recently by John H. Magill of Automotive Safety Foundation on behalf of the National Committee on Films for Safety, to Lieut. General Anthony C. McAuliffe, Army Assistant Chief of Staff, G-1, Personnel. After accepting the award for the Army, General McAuliffe presented it to Major General George L. Back, Chief Signal Officer of the Army, whose staff produced the film.

Citation accompanying the award reads: "National Committee on Films for Safety Award presented to the United States Army for the motion picture, 'Once Too Often' accorded highest honors in the general safety field for non-theatrical films produced or released in 1950."

NEW Mild Fungicide

TOUGHENS

THE SKIN

STOPS ATHLETE'S FOOT

in 2 weeks!

Cuts Operating Costs 1/3



Believe it or not . . .

DEATH VALLEY'S ALKALI FLATS

Reveal the secret of Nature's own Method

New SELF-FEEDING
MIRACLE MATS



Bring the Alkali Flats to your shower rooms . . .

"A GODSEND FOR SORE BLISTERED FEET" says a Dallas, Texas user.

TRY IT AND SEE FOR YOURSELF. Pay nothing unless 100% satisfied!

THE ALKALI FLATS destroy plant life by Salt Action . . . and the Athlete's Foot fungus is plant life.

Everybody would enjoy foot health if we all went barefooted each day on a Salt Flat.

IN THE SAME WAY the mineral salts in non-toxic Foam-X soon restore shoe-softened skin to its original toughness and STOP ATHLETE'S FOOT!

FOAM-X RELIEVES FOOT FATIGUE

Stops Costly Layoffs --- Steps Up Efficiency
Pays For Itself Many Times Over!

IN CANADA WRITE: SAFETY SUPPLY CO., TORONTO

Send full details on 30 day "Proof or No Pay Test."

Name.....

Address.....

City.....Zone.....State.....

How many use showers..... SHIPPING DEPOT: HUNTINGTON, INDIANA

FOAM-X COMPANY - 334-B WEST ALAMAR - SANTA BARBARA, CALIFORNIA

NO SAFER PROTECTION FOR PUNCH PRESS FEEDING

OSBORN Safety Pliers can't shatter if accidentally caught in closing press dies . . . can't send a blinding splinter into an operator's eyes . . . can't damage your press dies!



They're made of Osmolloy, the amazing lightweight Aluminum alloy that flattens under impact—instead of shattering. Suggestions for virtually any individual application are yours for the asking . . . ask for Bulletin No. 8-51 for the standard designs. THE OSBORN MANUFACTURING CO., Argonne Road, Warsaw, Indiana.

OSBORN

SAFETY PLIERS



*"One of the surest
ways to make money
is to save money..."*

CAPTAIN EDDIE RICKENBACKER

President and General Manager
Eastern Air Lines, Inc.

"... and the purchase of U. S. Savings Bonds through the Payroll Savings Plan is an easy way to save. It is good for the community. It is good for you because it means money available for a rainy day. Through the thousands of years that men have roamed the globe there have always been rainy days."

A vigorous exponent of thrift, Captain Eddie Rickenbacker made the Payroll Savings Plan available to his employees of Eastern Air Lines some years ago. From time to time, in personally dictated letters addressed "To All Members of Eastern Air Lines Family", he points out the individual and national advantages of the Payroll Savings Plan, and urges members of Eastern Air Lines Family "... to sign up on the Automatic Payroll Savings Plan. In years to come I am sure you will be mighty glad you did."

How about *your* Payroll Savings Plan? What have you done since Savings Bonds became Defense Bonds? What is your percentage of employee participation?

From coast to coast, companies large and small are installing the Payroll Savings Plan or revitalizing their present plans through person-to-person canvasses which put a Payroll Savings Application Blank in the hands of every employee.

Note the results of some recent person-to-person canvasses. Think what management efforts like this mean to

the Defense effort. Then phone, wire or write to Savings Bond Division, U. S. Treasury Department, Suite 700 Washington Building, Washington, D. C. Your State Director will be glad to help you put in a Payroll Plan or show you how to conduct a person-to-person canvass.

Results of recent person-to-person canvasses to increase participation in Payroll Savings

39 companies . . . total employees	487,347*
Employees on plan before canvass	81,481
Employees on plan after canvass	329,942
% of participation before canvass	16.8%
% of participation after canvass	67.7%

New savers added to plan 248,461

Based on National averages, employees in this group of companies are saving more than \$7,000,000 every month in United States Defense Bonds.

*Includes 62,870 employees of six companies which did not have plan before canvass.

The U. S. Government does not pay for this advertising. The Treasury Department thanks, for their patriotic donation, the Advertising Council and

NATIONAL SAFETY COUNCIL



SAFETY

POSTERS

IMPORTANT

ALL miniatures shown on these pages are of NEW posters — produced for the first time this month. Excepting the Jumbo poster (below, left) all will be available during the remainder of 1951. Those displayed on the following pages in

black and white are actually printed in two or more colors. We suggest you refer to this copy of the News in making monthly selections.

In addition to these new posters, you will find a great variety of subjects among the 744 posters illustrated in the 1951 Directory of Occupational Posters, and which will also be in stock throughout 1951. For a proven plan of selecting your posters objectively, refer to pages 4 and 5 in the Directory—a copy of which has been sent to all National Safety Council members. Additional copies are available at 50 cents each—write Membership Dept., N.S.C.



9429-C

25x38

Above new "C" poster, issued monthly, is indicative of the other two color posters—shown in black and white on the following pages and in the 1951 Poster Directory.



JUMBO POSTER for NOVEMBER 1951

The Jumbo poster, issued monthly, is designed for outdoor use and is available to members on annual subscription but is not stocked. Its actual size is 9' 11" by 11' 8".



9367-A

8' 1/2 x 11 1/2

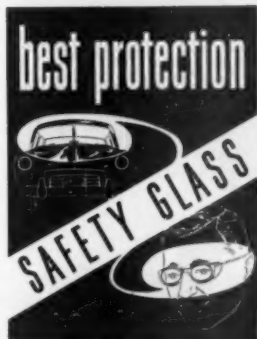
This new four color poster is illustrative of the 73 four color posters shown in the 1951 Poster Directory.

Electrotypes of poster miniatures on this page are not available, nor can payroll inserts be supplied.

Posters below are printed in two or more colors
(Available only in sizes indicated)



NATIONAL SAFETY COUNCIL
9287-B 17x23



NATIONAL SAFETY COUNCIL
9226-A 8½x11½



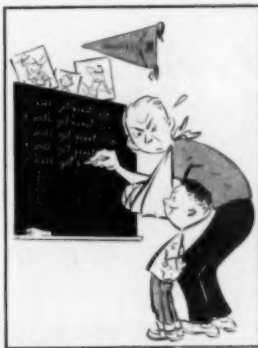
NATIONAL SAFETY COUNCIL
9385-A 8½x11½



NATIONAL SAFETY COUNCIL
9326-B 17x23



NATIONAL SAFETY COUNCIL
9415-A 8½x11½



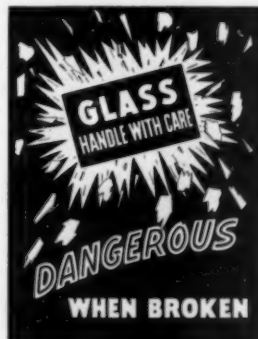
NATIONAL SAFETY COUNCIL
9397-A 8½x11½



NATIONAL SAFETY COUNCIL
9421-A 8½x11½



NATIONAL SAFETY COUNCIL
9290-B 17x23



NATIONAL SAFETY COUNCIL
9419-A 8½x11½

Electrotypes or payroll inserts can be furnished on all poster illustrations shown above.

Posters below are printed in two or more colors
(Available only in sizes indicated)



NATIONAL SAFETY COUNCIL
9407-B 17x23



NATIONAL SAFETY COUNCIL
9366-A 8½x11½



NATIONAL SAFETY COUNCIL
9420-A 8½x11½



NATIONAL SAFETY COUNCIL
9377-A 8½x11½



NATIONAL SAFETY COUNCIL
9425-A 8½x11½



NATIONAL SAFETY COUNCIL
9416-A 8½x11½



NATIONAL SAFETY COUNCIL
V-9414-B 17x23



NATIONAL SAFETY COUNCIL
T-9363-B 17x23



NATIONAL SAFETY COUNCIL
V-9412-B 17x23

Electrotypes or payroll inserts can be furnished on all poster illustrations shown above.

You and the Newspapers

—From page 103

George Morton, for forty years a crane operator of Extra Steel Mills, who has poured more than a million tons of steel without an accident, receives a citation with medal from National Safety Council.

Sometimes an industrial or commercial unit is fortunate in having a personality who catches the public imagination and who becomes a central dramatizing agent of an event because he is well and favorably known. Such a person is a gold mine for a publicity writer.

Perhaps the industrial unit observes some colorful custom, such as an annual picnic, or a birthday or a Christmas party. If not, perhaps such an occasion can be promoted. Perhaps the community celebrates an event like a cherry blossom festival or a harvest moon festival, or perhaps, an anniversary with a public parade. A public relations director can take advantage of such events to secure good publicity. Certainly dis-

criminating use must be made of such vehicles but there is always need for discretion in drama.

Next to good copy comes good distribution. A publicity campaign that fails to reach the people it is designed to influence is wasted—obviously. The publicity man must answer these questions:

When shall I release my publicity?

How and where shall I release it?

If there is a newspaper story

how many of the people I am trying to reach will read the newspaper?

If there is both a conservative and a sensational type newspaper in the community should I use one or both papers?

If there is a Sunday paper should I try to get it with pictures in the rotogravure section at a strategic time?

If there is a morning and an evening paper should I shoot for one or both?



JOMAC GLOVES

outlast 9 pairs of "monkey face" gloves in die-casting plant

A die-casting plant* had been using up "monkey face" gloves at the rate of three pairs per man per day. They switched to Jomac Work Gloves and found Jomacs lasted three days, nine times as long as the old-style gloves.

*Name on request.

JOMACS ARE

Washable • Reversible • Flexible • Heat-resistant
Protect against heat, cold, rough and sharp edges

C. WALKER JONES CO.

6135 N. LAMBERT STREET • PHILADELPHIA 38, PA.

Finest Floor Mat Made



CUSHIONED MAT

Rubber Feet Give
Positive Insulating Protection
From Electrical Shock



**Straight Oak Slats
Mounted on Rubber**

**DEALERS IN
MOST MAJOR CITIES
OR WRITE DIRECT**

**SOUTHERN
MANUFACTURING COMPANY**
1814 Desiard St. Monroe, La.

If foreign language newspapers are read in my community should I try for publicity in them?

Monday morning is usually a good time to release handouts. Unless something special in the news breaks there is more space for publicity in a newspaper on Monday than on other days.

Consider national holidays and the nation's penchant for automobile travel. The National Safety Council forecasts the probable number of deaths and injuries

from automobile accidents and other causes and press associations send out the story. The local editor gets the press association story and he uses it—frequently on the front page. Often he writes an editorial on these holiday tragedies. A little foresight may enable the publicity writer to prepare a story embracing local features which the editor can fit neatly into his plans to supplement the press association release.

Awards, scrolls, plaques, flags

and medals for accomplishment in accident prevention, the presentation of citations and pins to drivers of trucks and to workers in the shops for five, ten, or more years of operation without a disabling injury; meetings of 25 year clubs and initiations of workers into them, these and other common activities are all sources for publicity which can be arrayed as dramatically or appealingly as the photographer's art and the writer's capacity allows.

Many dailies carry weekly summaries of automobile accidents, usually releases from State Motor Vehicle Departments. Interesting local sidelights slanted to serve the publicity writer's purpose may appeal to the local editor. The writer knows, or should know, from his familiarity with the newspaper, what must be written and how it should be written to fit in easily with the press association story or the departmental release he desires to supplement.

News stories of fires, explosions, train wrecks, and other catastrophes which happen nearby have

Are You Fully Protecting the Feet of Your Employees?



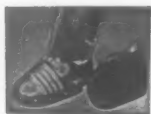
"SANKEY" IMPROVED FOOT GUARD equipped with Anti Skid TOE CLIP.

"SANKEY" FOOT GUARDS consist essentially of a metal shield to be worn over the shoe whenever the foot is in danger of being either crushed or cut. The metal shield is designed to furnish a maximum amount of protection to the entire front of the foot—not merely the toes alone, but also to the instep against hazards from falling, rolling or flying objects, or from accidental tool blows. Write for literature or a trial pair.

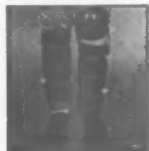
ELLWOOD SAFETY APPLIANCE COMPANY
219 SIXTH STREET ELLWOOD CITY, PENNA.



Combination
Foot-Shin Guard



Foot Guard Equipped
With Anti-Skid
Full Sole



Fibro-Shin and
Shin-Knee Guard

FOR YOUR INDUSTRIAL
RUBBER NEEDS SEE

Miller Products Co.

"Industrial Rubber
Headquarters"

Write or telephone today for information and prices on our complete line of super quality Industrial Rubber Products at low prices. Immediate delivery from our New York City warehouse of the following:

- APRONS
- GLOVES
- CLOTHING
- FOOTWEAR
- BUCKETS
- FUNNELS
- TUBING
- DIPPING BASKETS

Send for your FREE copy of our new, fully illustrated catalogue NOW!

If You Buy Industrial Rubber
Products It Will Pay You
To Get Acquainted With

Miller Products Company, Inc.



33NS Warren St. New York 7, N. Y.
COrtland 7-5335

special home interest. Such stories are covered by regular news reporters but they provide opportunities for interesting sidelights that may fit the publicity writer's wants and which appeal to the editor. Only an expert can distinguish many such handouts from actual news stories.

Items concerning employees who participate in the accident prevention campaign may be sent to the local news editor for inclusion in the news column that carries personal items of the locality. It may be suburban or the news coverage of a nearby village or town:

Carlo Nundani, chairman of the shop safety committee at Extra Steel's Rolling Mill, will be the breakfast speaker at the Holy Name Progressive Club meeting at the Highland Hotel tomorrow morning.

Such an item might go well in a foreign language newspaper too.

Some hints as to what the editor likes to find in handouts are given in the following paragraphs. They apply generally to all written publicity.

1. Make the story as short as possible consistent with what it is desired to publicize.

2. Summarize the story in the lead paragraph or paragraphs. Tell when, where, who, how, and why.

3. The story must follow up and explain the feature, otherwise it advertises something it does not deliver.

4. It must be written so that the editor can cut it almost anywhere and still leave a story that seems complete. This requires paragraph unity in which each paragraph deals completely with some phase of the story.

5. Comment and opinion have no place in such publicity.

6. Diction must be clear and swift. This is accomplished by a style that uses short, simple sentences—simple sentences especially. A four word sentence can be abstruse.

7. Avoid what George Bernard Shaw used to call "springtime adjectives" that bedevil with the "fumes of understanding." Never begin a sentence with explanatory matter.

8. Paragraphs should be short and compact with the emphasis in the beginning to present the content in the

Oakite's New FREE Booklet



tells how to strip large areas with or without steam; strip metal parts in large volume; prepare stripped surfaces for repainting; remove oil-base paints, synthetic enamels, plastics, resin-base paints, japans, wrinkle finishes, alkyds, phenolics, ureas, etc.

FREE copy sent on request. Write Oakite Products, Inc., 14D Thames St., New York 6, N. Y.

OAKITE
SPECIALIZED INDUSTRIAL CLEANING
MATERIALS • METHODS • SERVICE
Technical Service Representatives Located in
Principal Cities of United States and Canada

must be
reset
manually



complete
positive
SAFETY

instantaneous gas shut-off under any or all unsafe conditions

New SERIES "LT" **McKee Eclipse** LOCK-TITE Safety Valve

Don't be satisfied with "one-way" safety on your gas-fired installations. Be safe ALL ways.

Only the LOCK-TITE Safety Valve offers positive shut-off in case of electric, gas or air failure, or any two of these—by the use of interchangeable power units.

Only the LOCK-TITE gives you all of these safety advantages: manual re-setting; most posi-

tive soft-seat seal (75 PSI seating pressure); exclusive through-shaft construction; valve body properly designed for minimum pressure drop; better materials for longer wear; easiest to mount. Completely fulfills all the latest safety requirements.

Representatives in All Principal Cities

Eclipse Fuel Engineering Company
711 S. Main Street, Rockford, Illinois

**McKee
Eclipse**

565A

SEND THIS COUPON FOR DESCRIPTIVE BULLETIN

Eclipse Fuel Engineering Co.
Dept. NS, 711 S. Main St.
Rockford, Illinois

Please send me, FREE Bulletin M-302 on LOCK-TITE Safety Valve.

NAME

FIRM

ADDRESS

CITY

TITLE

STATE

shortest possible time. There should not be a surplus word in the whole story.

9. To avoid wordiness use concrete rather than general words. Don't say "a large number of people" say "a thousand" or whatever the number may be. Whenever a broad general word is found change it to a word with definite meaning. Change vagueness to meaningful writing.

10. Question the use of passive verbs and substitute active verbs to liven up the copy. Trite words are taboo. A little slang may be allowed—but very little.

11. Never talk down—give the copy dignity. Coarse expressions are seldom

justified in any writing—never in publicity copy.

12. Boiling down the first draft or two will usually improve the story. This is often better than to take out whole paragraphs.

13. Double space all copy and leave ample head space as well as a liberal margin on each side. A six inch line (60 typewriter spaces) on an 8½ x 11 sheet is about right and such a line provides about two lines of newspaper print.

14. Identify the story on each page and, of course, number pages. But do not have more than two—three at the

outside. Long handouts have a habit of finding the wastebasket.

15. Do your own clipping. Don't ask the editor to send clippings. He gave space; be grateful for that.

16. Crisp, new ideas are liked by editors and what they are can best be gleaned from studying the type of articles published in the medium you wish to use.

17. Finally, it is suggested that the novice get a copy of the newspaper's style sheet. Studying it will help to develop habits of accuracy.

Other media for publicity may range from a single bulletin board serviced with typed information and newspaper clippings of the other fellow's publicity, through booklets, pamphlets, monographs, envelope stuffers; exhibits of charts, graphs and diagrams; photographs, drawings and posters; house organs, motion pictures, sound and silent film, public speeches, radio talks, localized and general meetings and many other media, all of which require more or less writing.

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LOUISVILLE 8, KENTUCKY

Before the Blueprints

—From page 114

dents being well known. Special treads were used, which are designed so as not to lose their non-slip characteristics as they wear. Standard 42-inch handrails and standard toe boards are a part of all stairs and elevated walkways. Ladders, installed only where stairs were impractical, are constructed with flat non-slip treads instead of round rungs in accordance with the Lever Safety Standard on the subject.

Each specific unit in the plant has its own special safety features. For example, where propane is handled, grounding systems to carry off static electricity from tank trucks are provided for use when unloading. The tightness of the propane system is safeguarded by a flammable vapor detector which operates continuously and sounds an alarm if flammable vapor is present before a dangerous concentration is reached. Where caustics or acids are han-

dled, safety showers and eye-washing stations are installed for immediate first-aid in case of contact with chemicals.

The old adage, "a clean plant is a safe plant," has been recognized and numerous conveniences have been installed to aid housekeeping. Areas where dust may accumulate are equipped with vacuum cleaning systems. The color system has been designed to create an atmosphere of cleanliness throughout the plant and to aid in maintaining high levels of illumination.

To help maintain the health of employees, a well-equipped and staffed medical service is provided. The quarters comprise reception room, nurses' office, first-aid room,

doctor's office, two examination rooms, two rest or treatment rooms, and a small laboratory. Medical procedure calls for close cooperation with private practitioners, community facilities, and the State Workmen's Compensation Board. The program emphasizes the preventive side of medicine.

In addition to the health clinic, other facilities have been provided for employees. Rest and locker rooms with modern equipment and eye-appealing color schemes have been installed throughout the plant.

A large air-conditioned cafeteria is located on the fourth floor of the office building. It has a seating capacity of 260 persons, who may enjoy a view of the distant San

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A One-Cup Headrest Goggle
made expressly for Gas Welding, Flame Cutting and Brazing

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- **LENS**, available in Federal Specification shades 3 through 6, is of standard 2 by 4 1/4" size, protected by a cover glass. New spring clip fastening makes the lens easy to replace; no tools are needed.
- **HEADREST**, with cork sweatband for comfort, is of light, easy to clean plastic, and is readily adjusted to any head size. Spring, concealed within telescopic arms, holds goggle snugly against the face. Hinged from opposite sides, weight is evenly distributed.



JACKSON UNIGOGGLE type W-60, shown above, has plastic headrest, telescopic arms.

JACKSON UNIGOGGLE type WR-60, shown at left, has same eyecup and choice of lens shades, but is held against the face by an adjustable, elastic headband.

JACKSON
PRODUCTS
WARREN • MICHIGAN



Goggle fits cheeks and forehead snugly, gently, with wide rim for comfort



To raise, pull up and forward in one quick movement... takes one second



Put back on guard again, goggle protects this welder quickly, comfortably

Sold World-Wide... through Distributors and Dealers

"Jumbo" Goggles You Can Put On or Take Off With One Hand



Yes, the Sellstrom No. 610 Welding, the 611 welding and grinding and the 612 clear plastic, wide vision goggles for general shop work are making eye protection history. Because of the extremely light weight, the perfect fit, the unusual comfort and the easy one-hand handling, workmen willingly wear these goggles, even though they may object to the use of the old style cumbersome goggles. They increase eye protection because they are worn more regularly.

They offer you everything desirable: Fit over prescription glasses, frame is one-piece construction with a special patented adjustment feature, perfectly balanced. One of these three styles is suitable for every goggle need. To prove these facts for yourself, and for "on the job" test purposes, let us mail you one pair each of the three styles, fitted with any type lens you desire. We will also give you the name of a near-by dealer who will take care of your regular requirements.

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When attending the Chicago Safety Show at the Stevens Hotel, October 8 to 12, be sure to see us at Booth 30.

We recently developed several new products which will be on display, ready for your inspection. All of them are made of the toughest obtainable material, streamlined for full eye and face protection, extremely light weight to satisfy the present demand, and provide the greatest possible wearing comfort.

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Gabriel range and foothills while eating. Meals are served from menus prepared with nutritional guidance by the plant medical director.

In design, function and color, the plant is typically Californian. The climate permits much of the processing equipment to be located out of doors with only storm shelters over the operating levels. Special attention has been given to the control of smoke and odors.

Buildings and installations at present occupy only one-third of the 30-acre tract, the remainder of which has been attractively landscaped. All buildings are of reinforced concrete and steel.

Built-in safety is not regarded as the final solution for the prevention of personal injuries. But the company believes that given a safe plant and support of top management, employees will be encouraged to put forth the necessary extra effort to prevent accidents.

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Loud noises in factories and plants cost Industry huge sums in workers' lost time, slowed production, accidents, lowered morale and impaired hearing.

Protect your workers' ears against loud noises . . . by using the

Lee SONIC EAR VALV

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Hearing is vital ...Safeguard it!

Not an ear plug

Unlike ear plugs, these tiny Sonic Ear Valves, composed of 20 small precision components, cut out only the harmful, shattering sounds . . . protect the delicate sense of hearing, guard against noise fatigue, headaches and slow-downs due to noise. Thousands of LEE Sonic Ear Valves are in use in Industry. Join these progressive concerns in providing money-saving, morale-building modern ear protection. For additional information, prices and industrial discounts, write

SIGMA Engineering Company

1491-N North Vine Street
Los Angeles 28, California

Representative inquiries invited

PANEL: What's Wrong with Small Business?

(From page 105)

to him, the cost to his economy, the cost to the employee.

The small plant manager must be made to comprehend:

1. The cost of interrupted production due to an accident.
2. The cost of replacing an employee.
3. The problem of breaking in a new employee.
4. Lower efficiency.
5. Delayed deliveries.
6. Cancelled orders.
7. Loss of customer good will.
8. Lower morale.

Once a small business manager realizes these problems and many more, and understands the implications, he should be ready to do something about them.

The work that can be done through trade associations, to which all small businesses belong, should be of considerable help in solving the problems.

Some small businesses have encouraged visiting nursing associations to come in to a group of

plants to assist in a good first-aid and health program. This is of tremendous help to small business and should be encouraged.

The small business manager must be made to realize the magnitude of his accident prevention problems. He must first of all be sold on the idea that *he wants to make his operation safe. He must want to do it.*

MR. KEEFER:



Here are a few reasons why small firms are not doing a better accident prevention job:

1. Small firms cannot afford full-time safety engineers.
2. All too frequently responsibility for safety is not given to anyone, even as a part-time job.
3. If responsibility for safety is assigned to someone, that person may

have insufficient authority to secure results.

4. If responsibility is retained by the president of the firm or assigned to some other top-ranking executive, that person may already be overloaded with other duties.

5. The average small firm does not maintain a running record of accidents, accident rates, or accident costs.

6. Even a very high accident rate will produce accidents so infrequently in a small group that its executives are not likely to be impressed with the seriousness of the problem.

7. Small firms rarely join such organizations as the National Safety Council, and their representatives attend safety meetings infrequently.

8. Small firm executives usually are reluctant to make expenditures from which they do not see definite and prompt returns.

9. The number of small firms is so great that the job of carrying the "gospel of safety" to them is practically beyond the capacity of the promotion method of attack that, under the leadership of the National Safety Council, has proved so effective with large concerns.

On the whole, these factors probably can be summarized best in this statement: The chief executive does not devote to the accident problem the relatively small

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STATE

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White ☐

Heavy ☐

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220 SO. 18TH ST., LOUISVILLE 10, KY.

a person from their organizations to be given the responsibility for administration of safety work.

However, no paper plan will prevent accidents unless action is taken by managers to assign the personnel to safety duties. It would require promotion on a national scale, probably under the sponsorship of the National Safety Council, supplemented by all organizations interested in industrial safety.

In Rhode Island we have at least made a start to carry out the above plan. In 1950 an act was passed providing for the administration of first aid and/or other medical services in places of employment. The act requires that all persons operating a factory, shop, or mercantile establishment where 25 to 399 persons are employed shall designate and employ one or more persons qualified as first aid workers. The act states that the first aid worker may be regularly employed at other duties in the factory. A registered nurse is required if the number of workers exceed 399.

This act took effect on July 1, 1951, after giving industry one year to select and train personnel in a standard first aid course. We arranged with the American Red Cross to take over this training. Approximately 2,700 persons have already completed the course and classes are being continued.

The passage of this law gave us a splendid opportunity to experiment. Here was the method of selecting personnel on a part-time basis made to order. We immediately arranged with the Red Cross that a two-hour course on industrial accident prevention be made a part of the first aid training course. This course is being given by our factory inspectors and insurance company engineers. The intent is to interest the first aiders in prevention with the idea of taking over both first aid and prevention work within the plant.

As a further step, all graduates from the standard first aid and industrial accident prevention course will be given a further opportunity to expand their knowledge. We have arranged with the University of Rhode Island extension service to contact all graduates and to try to interest them in a 30-hour eve-

ning course in industrial accident prevention.

This plan is still in the experimental state. However, we feel at least we have started something concrete.

COL. STRATTON:

Replies developed from field contacts with small business establishments may give an insight into the mental gymnastics of the small plant manager and his excuses for not responding readily to any approach concerning a regular accident prevention program. These replies are:



1. Since we are a small industry, it does not pay us to give any individual time to learn anything about a safety program.
2. Accident prevention should start in the schools and safety training should not wait until people become employed.
3. Our plant is safe enough; "It can't happen here."
4. We have never had a major accident. Why worry about it.
5. My employees are too dumb to assimilate safety material.
6. It is too expensive.
7. Our plant is not the type that has many accidents.
8. We cannot see how information for preventing accidents is of any value since the machines are supposed to be 100 per cent safe.
9. My employees work on their own, it is their responsibility not to get hurt.
10. I provide all the necessary guards and safety equipment, isn't that enough?

Two conclusions develop from such statements. First, it definitely indicates small plants feel that safety is someone else's responsibility; and second, as long as it costs something, it just can't be done. Sometimes this latter attitude even prevents the use of "free" safety material.

"What can be done about it?" I wish I knew. It almost appears as if the small business establishment must feel first the effect on his pocketbook. Any altruistic or humane approach seems not worth the time spent. It appears to me that the safety record of the small business or plants will not become good until some way is established whereby the small operator will appreciate that safety is a part of his production program and that

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his failure to provide safe operating conditions, to provide proper safety equipment, to provide the needed supervision and education may be the items which will place his business in the loss column.

The situation is unfortunate, because an injury causes just as much pain and inconvenience to the employee in a small plant as if he were doing the same job in a large establishment.

MR. NELSON:

If one reason were to be given it might be stated broadly that some top managements in small business have never been sold on safety.



As a result we occasionally receive statements that to provide guards or other safety essentials cost too much. Or perhaps an employer in an all-wise attitude will make the statement that his judgment is better than that of the enforcing authority.

And on other occasions we have been told, usually erroneously, that so-and-so has not been required to do this, so why should he.

Of course, we make sure that the required protection or its equivalent is provided. However, it is our firm belief that it is much better to sell safety to such employers and prove to them the fallacy of their thinking. We find that if the head of the industry is thoroughly convinced of the logic of accident prevention, a great share of the problem is solved.

When this is done it opens the way to plant safety programs, including properly authorized safety supervision and also plant safety committees with which we are in frequent contact.

To illustrate the results of such procedure, may I quote a portion of a letter received from one employer:

"The Industrial Commission led the way years ago, you might say forcing industry to respond to the requirements of good thinking and as a result of the work that has been done through the cooperative work of the Industrial Commission

and the industry, I think a book could be written about Wisconsin on this subject alone."

MR. VAUGHAN:

Most small business owners have never been sold on the direct and indirect returns from an active interest in safe operations.



When first meeting this type of individual, we learn that he always has what seems to him a good reason for not being interested. The answers sound different, but they all stem from lack of interest.

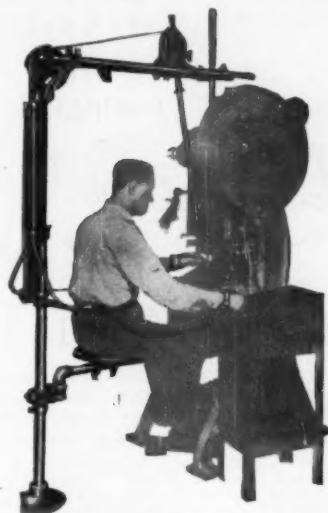
One man says that he has paid for his insurance and, therefore, he is protected and should not have to do anything further. Another tells us that accidents just happen and nothing can be done to prevent them. We are told that the unions won't let management do anything concerning accident prevention.

The owner says that his employees are so dumb that he can't teach them safety. An often-used story is that he can't even remember a serious accident occurring in his business, so why should he be concerned about preventing accidents when they never have experienced any?

We have to fortify ourselves so that we can talk down these arguments and convince the small businessmen that they should be concerned, they can reap benefits from accident prevention effort, accidents can be prevented.

Unions do not want to see their members injured or maimed, the average employee is interested in working safely if he is properly directed, and a little memory jogging will usually recall an accident and injury in the owner's particular business.

As an example, I recall a small businessman whom I endeavored to sell on safety through telling him about the indirect losses for which he was paying. His answer to me was that while he knew it was costing him something, he was not complaining about the cost and, therefore, why should I worry about it? It took continual selling effort, with more than one call,



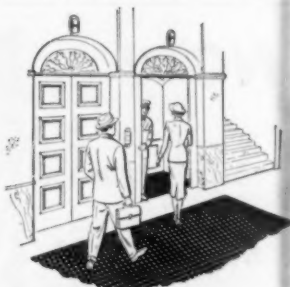
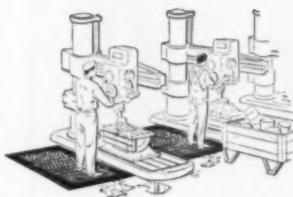
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plus a lucky accident during one of these calls, to sell this man on safety.

The incident was that one of his drivers carelessly smashed the rear fender of his brand new car with a truck while I was trying to sell the man on safety education among his workers. This accident did more selling than I could ever have accomplished. Once sold, he took the necessary action and remarkable results were obtained.

We must do everything possible to sell these individuals on the importance and value of accident prevention.

Once a small business owner is sold, he can easily control accidents for he has his fingers on everything in his small organization. Through his leadership, he can quickly convert a hazardous operation into a safe operation.

He must, however, take the lead, and we must sell him on assuming this responsibility.

MR. WHALEN:

The basic reason, in my opinion, usually is economic. Small plants usually operate with an absolute minimum of employees, in plant, office and supervisory staff. Expenditures for safety, not obviously contributing to increased production, are felt to be burdensome, while safer methods which tend to slow down essentially hazardous operations are felt to be unreasonable.

The small business field is highly competitive and corners must be cut somewhere to stay in the business.

"Safety is a good thing," the small business operator will tell the safety engineer, "but my office force hasn't the time to keep the records you suggest . . . How can I have two men lift those cases when I have only one shipping clerk and everyone else on the production line? . . . I know we're having more accidents than we should, but I can't watch my employees all the time and my foreman is too busy with production . . . How can I afford to put point of operation guards on ten kick presses? It would cost me two



months' profits! . . . Sure that would be a safer way to do it, but everyone else in the business does it this way and I can't compete if I slow down operation 30 per cent."

As we see it, there is a real selling job to be done by competent safety engineers.

MR. ZESKEY:



Right now, we are trying to find an answer to this question by means of a questionnaire survey of 500 of our assureds. The re-

sults are not all in yet, but the trend is apparent.

Among the questions we asked were "Did our engineer make any recommendations? If so, do you approve of them?"

Of 314 questionnaires sent out so far, 204 have been returned, 72 of them with unsolicited complimentary remarks about our service. Of the 204 returns, 157 stated that recommendations had been offered, and all but 2 of these stated that the recommendations met with their approval.

It seems to me that some small businesses refuse to accept accident prevention service because the service is not properly offered. But, since most of the concerns do approve of the service, many of them emphatically, we can assume we are generally on the right track and must look now for the defects in our service which are preventing wider acceptance.

I am of the very definite opinion that most successful small business men do know that accidents cost them money and that prevention of them is their responsibility, not the insurance company's. I am equally positive, however, that most of them don't realize how many accidents they have. We run into this situation more frequently, perhaps, than other types of insurance companies since the return we make is based on the assured's own experience.

In most of the cases where our return is low, the assured is surprised at the amount of his losses. This is particularly true when the loss cost is made up of a number



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The Automatic Safety Head Control may be applied to any vertical refrigeration compressor that has a safety head. The Safety Control is operated by the lifting of the safety head as a result of broken valve or screw, carbon build-up, loose connecting rod, or a slug of liquid.

As the safety head lifts, a stainless steel push rod operates a micro-switch which may be connected to the main power control and also through the liquid line solenoid and an alarm system.

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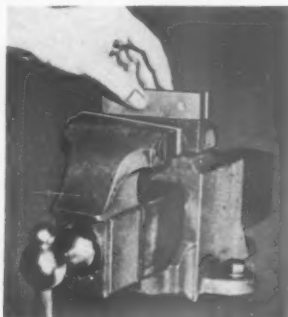
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EAU CLAIRE, WIS.**

of minor injuries rather than one or two outstandingly serious ones which are more easily remembered.

MR. WALTERS:

To understand some of the reasons let's analyze a typical statement from the management of a small business operation.



The head of a wholesale fruit and grocery company has to say:

"We'll adopt any ideas which improve the safety and welfare of our employees and assure the best in customer service. However, we have learned that in order to achieve the best in effective accident prevention, we need safety engineering help. We need to know why a particular condition is a hazard, how it will affect our employees and our business. After we understand that a hazard does exist, in most cases we will need the technical answer to the problem.

"One of the basic differences between so-called small and large business is the amount of specialized help employed. In a large business, specialists are responsible for handling one or two phases of the operation. In our business, there are just as many responsibilities, but all of us must be responsible for several areas of operation, instead of certain specific ones. We do not have time to develop a great deal of technical knowledge about accident control."

There are two common reasons why small business does not readily accept accident prevention service:

1. Most small businesses are not aware of the hazards which actually exist in their industry.
2. They do not really understand the indirect effect of accidents on business, and feel satisfied with insurance protection which takes care of the direct cost of the accidents.

Small business demands from the safety engineer that the action taken and the expenditures made relative to accident prevention will show a positive result. The small business manager wants the safety engineering service which takes into consideration his business interests in relationship to the se-

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riousness of the accident potential that exists. He wants a progressive program that takes first things first and does not over-emphasize petty conditions.

More than anything, he desires practical answers to his problems. Small business is no longer satisfied with a program which deals only with mechanical and physical hazards.

The business may only have one foreman or supervisor, but it is just as important that this one man know the techniques of good supervision as it is for 40 foremen on a larger operation. Small business foremen need help in establishing safe job procedure, teaching employees, following up and directing work activity.

When an insurance safety engineer walks through the door into a small business, he is an employee of that company and he must use the same good judgment expected of any other employee. His first job is to completely erase the feeling of his being an "inspector." He must lay out a positive and effective program which can be understood and carried out by management.

Once a safety engineer approaches small business with the same attitude that he has toward the safety problems of larger business, he will eliminate the principal reason why the small business does not readily accept accident prevention service.

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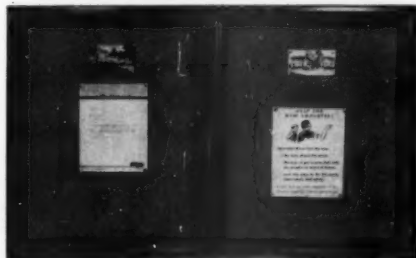
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When Your Program Goes Sour

—From page 111

the roof. Remember these things have probably happened many times before but nothing was done about it. There must be a reason or many reasons behind it all.

4. Don't start a deluge of safety meetings.

Preaching at people at this time is not going to do any good. All you can talk about is ancient history anyway. This does not mean that you should not have safety meetings. But, their frequency should be continued on the same basis that they were when your safety program was clicking along with very good results.

5. Don't make rash commitments.

Being dramatic about making rash commitments is foolish. Don't use the dramatic table pounding attitude that from now on things are going to be different. Human nature doesn't respond to this approach. Besides, down deep in your heart you know that is only window dressing anyhow. No one is fooled by it.

Also, any rash commitments pertaining to future frequency rates are merely gambles. There are mills that roll along month after month, even year after year, with spotless safety records. But, ask anyone in a position of authority to bet what the accident frequency is going to be the coming month or year and he wouldn't risk a plugged nickel. Human nature is too unpredictable.

So talk about goals. There is a difference between them and rash commitments. But, pointing out goals and how to reach them must be backed by an analysis of past performance to determine causes, so . . .

6. Analyze and review your program.

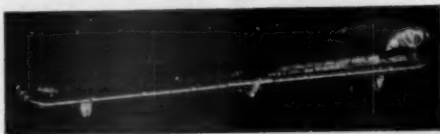
It is a good idea to remember at this time that throwing your present program out the window is probably the worst thing you can do. The facts prove that it worked once and should do so again. No matter what type of

safety program you have—whether you use a committee system or not, have a safety man or not, it's well to remember that the ultimate objective is to reach each individual. It must kindle in each individual a burning desire to make safety his own personal responsibility, not only for himself but for his fellow workers. That flame has burned brightly in the past and you will find that it's burning now too, but not as brightly. So, ask yourself these questions to determine the reason:

1. If you are using a safety committee, has it been short circuited? Does it think it's only a rubber stamp?
2. Are we still making efficient use of the help of organized labor?
3. How are our industrial relations? Are they as good as they were, say a year ago? If not, why not?
4. Has emphasis been focused on production costs or wastes?
5. Are our bulletin boards spick and span and changed often? Do they carry National Safety Council posters, preferably colored, conveying a clear message?
6. Are we publicizing safety as much as we used to?
7. How about our safety job orders? Are they months old?
8. Are our employees submitting safety suggestions or is there a "what the hell" attitude?
9. How is our sanitation program? Has it slipped? Are we economizing on paint and clean up?
10. How about our plant inspections? Are items needing attention carefully followed up and done?
11. What do our first-aid records show? Are there repeaters? Is a certain type of injury recurring?
12. Are we carefully and promptly investigating and publicizing all accidents, determining the causes and following up on the recommendations?
13. How many new people have we hired and how are we training them?
14. Are the supervisors on the ball? Do they come late to safety meetings or don't show up at all? Are they adopting the attitude, "There are other aspects of my job of more importance. Let someone else take care of the safety job?"

Elaborating on the part supervision plays, someone has aptly said that a good supervisor must be a good juggler. He must juggle balls marked safety, quality, production, costs, industrial relations, etc., and his concentration must be on all of them. Consequently, too much concentration on one will cause him to drop one or more of the others.

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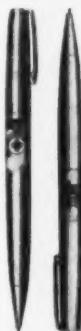
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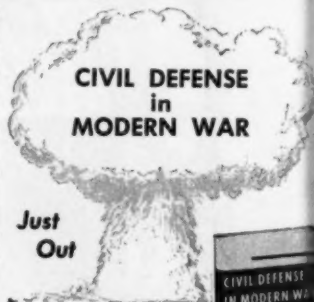
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when your safety program has gone sour. There has been too much concentration on other things and if we face the situation honestly we must admit that this is so. So called "drives" are not the answer. A drive on this or on that may sound wonderful but experience will show you that a drive on production will cause quality to slip or vice versa. Or, a drive on wastes or costs will cause production or safety to fall by the wayside.

Therefore, smart supervision constantly endeavors to place equal emphasis on all factors that contribute to a smooth running and successful business. When your safety program was clicking wasn't it that way? Attain that same condition again and your safety program will no longer be sour.

Therefore, by analyzing and reviewing your past performance carefully and calmly, you place a spotlight temporarily on one factor that has been neglected. Then, in the light of this appraisal, slowly and methodically remedy it by fixing what has to be fixed.

Fire Detection

—From page 166

nite spacing basis. Some makes of these devices are equipped with fixed-temperature elements as auxiliary features.

Another type of automatic fire protection that merits particular mention is automatic smoke detection. First developed for industrial uses by my company fourteen years ago, this service is now extensively used, and in its own particular application is superior to any other system. These devices were originally designed to detect smoke in the ducts of air-conditioning systems. They are now considered the ideal protection for record storage rooms, fur vaults, air-conditioning systems and equipment, hops storage vaults and similar enclosed areas where smoke is not ordinarily present.

Projected beam types are the most sensitive. These are systems in which a light-beam is projected across the ceiling or some other part of the protected room.

Spot type and sampling type devices are also available. A sampling or spot type detector is one in which a light-projector and light-receiver are together in a single box, and smoke reaches the box either by convection or through a system of forced suction. Most smoke detectors are electrically supervised so that a distinction may be made between alarms caused by smoke and those caused by equipment troubles.

Automatic Sprinklers

One of the greatest contributions ever made to fire protection undoubtedly is the automatic sprinkler system. These systems attack a blaze in its early stages by pouring water on the fire when a fusible sprinkler head or plug in a system of water pressure under piping, is melted out by the heat from the blaze itself. Such a sprinkler system is of even greater value when automatically supervised. Such supervision converts the system to an automatic fire detection and alarm system by automatically detecting and re-

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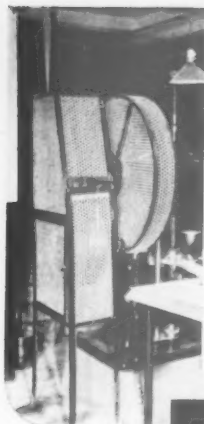
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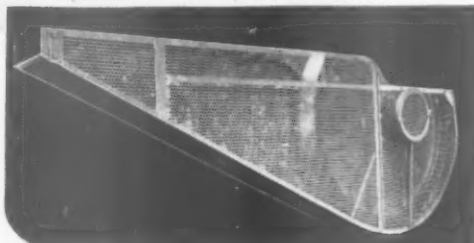
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porting any flow of water in the system.

There are four general types of water flow detectors. First: Those in which a flow of water raises the clapper of the alarm check-valve which isolates the sprinkler system from its water supply. This raising of the clapper causes operation of either a mechanical, an electrical or a hydraulic alarm device which is equipped with a retard or time-delay feature to prevent false alarms due to pressure surges or "water hammers."

A second widely used type is a differential pressure operated device which functions whenever a small but sudden decrease takes place in the water pressure within the sprinkler system. Such a decrease occurs whenever one or more sprinkler heads open. This type of device operates very rapidly, since it does not have to wait for the movement of water past a check-valve to cause its operation.

The third type in common use is a vane-type detector, consisting primarily of a movable vane installed in the sprinkler piping. The velocity of water flowing through the pipe causes the vane to deflect and initiate an alarm. This is used in so-called wet-pipe sprinkler systems where either of the preceding two arrangements are not feasible, or where it is desired to segregate portions of the sprinkler system for annunciation purposes.

The fourth type is designed for use in so-called dry-pipe sprinkler systems. Many sprinkler systems protect unheated areas. In such locations, of course, the pipes cannot contain water because it would freeze. However, when a sprinkler head operates, water under pressure is supplied to the system. This is detected by a pressure-responsive contact-making device. This type of detector is also used in deluge type sprinkler systems which normally have open heads, and in preaction sprinkler systems which flood upon operation of a rate-of-rise or other fire detection system.

Besides detecting the flow of water, other supervisory features may be added to the sprinkler system. These devices will detect abnormal conditions of the system

which might render it inoperative. Supervised points include gate valves, air pressures in gravity and pressure tanks, water levels in gravity and pressure tanks, the temperature of water in exposed gravity tanks, and the like.

Manual fire alarm stations are commonly used to supplement automatic fire detection systems. They may, of course, be installed independently. They provide the occupants of a building with a quick and accurate means of summoning fire-fighting forces directly to the scene. Any manual fire alarm system may be connected to operate local gongs which may be of either a coded or noncoded type. Horns and other sounding devices may be used with any of them too.

Also, it may be pertinent to mention that all good fire detection, smoke detection, manual fire alarm, waterflow alarm and sprinkler supervisory systems listed by Underwriters' Laboratories, Factory Mutual's Engineering Division and the New York City Board of Standards and Appeals, are continuously electrically supervised in such a fashion that derangements of the equipment are automatically detected and reported. Such electrical supervision always distinguishes between equipment troubles and actual alarms.

The rules and regulations commonly in effect throughout the United States in regard to these systems are formulated by the National Fire Protection Association which has a Signaling Committee charged with that duty. These regulations are adapted and published as standard by the American Standard Association, by the National Board of Fire Underwriters' and by the National Fire Protection Association. They have become written into law in some states. These regulations define the various types of alarm systems associated with the detection systems I have mentioned.

Central Stations

The most reliable protection system is one that is supervised by an approved central station. Under this system all signals originating in the protected premises are automatically received at an inde-

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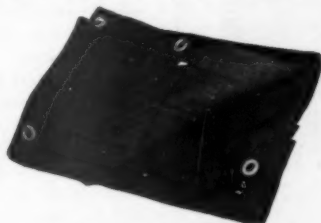
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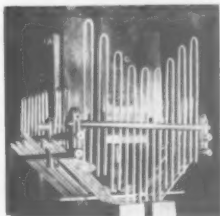
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pendently owned and operated central station located outside of the property, where trained operators and guards are on duty at all times. Upon receipt of alarm signals, the central station acts according to requirements—such as dispatching the fire or police department, initiating investigations and securing corrective action, notifying the owners and insurance underwriters, and sometimes the civil authorities. Of equal importance to the handling of alarms, is the continuous electrical supervision of the protective system. Trouble conditions in the system are automatically indicated. A force of skilled maintenance men is constantly available to make repairs and to conduct frequent inspections and tests. This specialized attention is essential to dependable operation.

Central Station Service provides an invaluable adjunct to municipal fire alarm facilities by providing facilities for detection and reporting of fire which are outside of the scope of the municipal system. Such protection does not put any burden on the taxpayer, since the expense usually is the responsibility of the owners or occupants of the protected properties.

Proprietary Systems

In some locations where, either because the property is very large and has its own fire-fighting or other facilities, or where standard central station service is not available because of distance, proprietary systems are used. Proprietary systems of the Class A type are very much the same as central station systems, except that the central station is actually on the protected property. Class B proprietary systems are not quite so elaborate in respect to equipment and there are modified rules regarding response to signals and the like.

Then there are also local alarm systems designed to give audible or visual signals within the protected premises. They are intended chiefly to warn the occupants of a building that a fire or waterflow has been detected. They are very useful where prompt evacuation of a building is the most important consideration. In instances where central station service is not avail-

able such local systems may be directly connected to a municipal fire department over private lines.

During the past ten years, properties protected by central station-supervised sprinkler supervisory and waterflow alarm service enjoyed an immunity from fire-losses of 99.98 per cent.

Complete automatic protection for buildings can be provided in a modern, effective, economical manner by combining automatic fire detection and alarm services with burglar alarm service. The latter may be applied to an entire building or to particular sections and to safes and vaults.

One of the most effective burglar alarm devices is a photo-electric beam of "black light." We call it the Invisible Ray alarm. Based on the principle of the electric eye, this system causes an alarm when a burglar passes through and thus intercepts the invisible beam. Incidentally, this device has proved efficient as a fire detector on many occasions, although it is not intended for that purpose.



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Smoke from an incipient fire penetrating the photoelectric beam of the burglar alarm system has often given the tipoff in time to prevent serious consequences.

Other automatic services, available in conjunction with fire and burglary protection, include the supervision of automatic heating units and industrial processes. Heating system supervision for coal, oil or gas-fired furnaces maintains a constant check on conditions such as room temperatures, stack temperatures, boiler water levels, pressures and the like. Abnormal conditions are automatically detected and reported to the central station for corrective action.

A similar type of service also is applied to provide a constant automatic check on industrial processes, including drying ovens, steam cookers and various mechanical operations such as paint mixing.

Elevator Industry Joins To Cut Worker Accidents

To combat increasing shortages of industrial manpower, the nation's elevator manufacturers have inaugurated an accident prevention program designed to reach every plant in the industry.

A safety committee appointed by Commissioner John McArdle of the National Elevator Manufacturing Industry, Inc., New York, will distribute technical and educational bulletins throughout the industry, exchange ideas on safety practices, and compile and distribute accident statistics.

The U. S. Department of Labor, according to Commissioner McArdle, reports 37.7 disabling injuries per million man-hours in the field of installation or erection of building equipment. This rate, while below the median for the construction industries, is susceptible of improvement.

W. J. Niederauer, safety director of Otis Elevator Co., was appointed chairman. He will be assisted by H. S. Ritter, Westinghouse Electric Corp.; Robert R. Fisher, Watson Elevator Co.; John P. Manning, Haughton Elevator Co., and C. P. Donaldson, J. W. Kiesling & Son.

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Identify every pipe in your plant quickly and inexpensively with Brady Pipe Markers. They give you a uniform system of identification based on ASA Standard A13. Anyone can apply and everyone can identify the pipe contents and direction of flow. Cut maintenance time. Make your plant a safer place to work. Over 235 different markers in stock. Specials made to order. QUIK-LABELS come on handy dispenser cards. They are printed in large black letters on approved ASA background colors. Applied in a jiffy—they stick without moistening. Use indoors or outdoors. Cost only a few cents per marker.

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WIRE MARKERS	W. H. BRADY COMPANY	EST. 1914
PIPE MARKERS		
SAFETY SIGNS		
PRINTED "SCOTCH" TAPE		
NAILS & STENCILS		

1627 E. SPRING STREET • CHIPPEWA FALLS, WIS.

Autumn Breezes Coming...

LOOK INTO IDU PROTECTION AGAINST

POISON IVY and POISON OAK

For more than a decade IDU Skin Lotion* has been giving outdoor workers—linemen, utilities workers, gardeners and foresters—the protection they need from poison ivy and poison oak.

These two spring and summer-time hazards to health and efficiency will soon become troublesome. Be prepared.

Don't let these irritating conditions develop—use IDU for their prevention. Order Now.

* Used for More Than 10 years by Wisconsin Public Service. Available at the following prices to public utilities: 4 oz. bottles, \$6.00 a doz.; 8 oz. bottles, \$10.00 a doz.; 1 pint bottles, \$16.00 a doz. FOB Wausau, Wis.

Send us a penny post card for a generous free sample.

I. D. U. PRODUCTS CO. WAUSAU, WIS.



NEW SAFETY EQUIPMENT FOR INDUSTRY

Further information on these new products and equipment may be obtained by writing direct to the manufacturer. It will help in identifying the product to mention this announcement.

Moccasin for Women

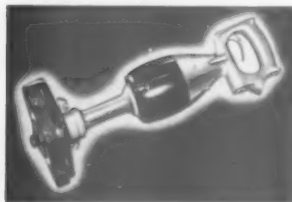
Iron Age Division, H. Childs & Co., Inc., Pittsburgh 22, has introduced a new, smartly styled, steel toe safety oxford for women in industry. Designated as Style 605, this shoe is built around a new last, incorporating ideas recently developed to produce a better fitting and more com-



fortable shoe. Made of genuine Goodyear welt, it has supple brown leather uppers. Outsoles are a trademarked brand, tanned and treated for long wear. A low rubber heel contributes to foot comfort. These shoes are available in sizes 4 to 10, widths A to D.

Air Grinder

A new air grinder, announced by Ingersoll-Rand Co., 11 Broadway, New York 4, has an added safety device to prevent overspeed operation. It has special application in foundries, steel mills, general manufacturing and metalworking plants where hand grinding is required for snagging, trimming, smoothing, etc. The grinder contains a motor governor to maintain correct wheel speed, plus a built-in unit called the overspeed safety coupling. In case the motor overspeeds, the safety coupling automatically uncouples the arbor and grinding



wheel from the motor, making it impossible to operate the grinder until the cause of overspeeding has been corrected.

Another safety feature is a multiple exhaust system. The operator can choose any one of four exhaust positions, spaced 90 degrees apart, and thus direct the ex-

haust away from the work and from his own body. Special muffling reduces the exhaust noise.

The grinder has a safe-carrying grip type handle which is designed with enough space between the throttle lever and the back of the handle for a comfortable hand hold. This permits the grinder to be safely carried while connected to the air line. The machine is available for 8", 6", or 5" wheels, running at respective motor speeds of 3100, 4100 and 4500 r.p.m. Over-all length is 24½" with straight handle and 22½" with grip handle. The grinder has a maximum side to center distance of 2½" and weighs approximately 16½ lbs. with guard.

Electrical Tape

A new type electrical tape, made with Koroseal material, is announced by The B. F. Goodrich Co., Akron, Ohio.

The adhesive is non-transferring, and can be pressed onto a dry surface repeatedly without losing its stickiness. It will not transfer the adhesive from the face or lose its ability to adhere, sticks securely to itself and insulation around copper wire. The tape has a dielectric strength of 8000 volts, is waterproof, highly abrasion resistant and flameproof, resistant to acids, oil alkalies and corrosive salts.

The tape is packaged in a roll 60 feet long, is ¾ inches wide, and .007 inches thick, and in an easy to use and carry metal container.

Protective Lighting

Line Material Co., 700 West Michigan St., Milwaukee 1, Wis., manufactures a line of protective lighting equipment for use at entrances, parking lots, railway sidings, loading docks, and various types of storage areas. Two luminaires, the Spherolite and Fresnelite, offer a variety of light



patterns which will, in most cases, adequately cover the requirements of all protective lighting installations.

The L-M Spherolite provides IES light patterns, Type I through Type V, and is

designed for use with incandescent lamps up to 575 watts on multiple circuits or 10,000 lumens on series circuits. With no basic changes or additions it will accommodate 11,000, 15,000, or 20,000 lumen vertical position mercury vapor lamps.

The L-M Fresnelite which projects a wide, flat beam of light for considerable distance, was specifically designed for glare lighting of outer fence areas. In application, it is mounted inside the fence boundary and projects a bright beam just outside the fence. As a result, a would-be intruder approaching a fenced area is brilliantly illuminated until he reaches a point 5 or 10 feet from the fence and from there on to the fence he remains silhouetted against a brilliant background.

Control equipment for all sizes and types of protective lighting installations is also available from this company.

Face Shield

Industrial Products Co., 2850 N. Fourth St., Philadelphia 33, announces a new type of face shield, scientifically designed for adequate protection and practical use on many industrial procedures such as chipping, grinding, spot welding, etc. Its features are greater area coverage giving pro-



tection to face, head, necks and ears. Cross ventilation minimizes breathing of devitalized air. Broad vision window provides 6" x 9" for unrestricted vision of work. It is light, comfortable and practical for both men and women employees.

Germicidal Cleaner

A new liquid germicidal cleaner that cleanses and also deodorizes and disinfects at the same time is announced by Huntington Laboratories, Inc., Huntington, Ind.

The product, Korex, is a compound combining soap, synthetic detergent, a germicide, a "wetting agent" and penetrant with water softeners and emulsifiers. It is unaffected by water hardness. It is highly

NEW SAFETY EQUIPMENT FOR INDUSTRY

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concentrated, and diluted up to 40 and 1 with water before using. It has been proved effective on all types of floors such as asphalt tile, cork, linoleum, rubber and on furniture, woodwork, walls, hard goods furnishings, leather, metal and for scrubbing hospital instruments. It is said to be safe on any surface unharmed by water.

Lift Truck

To suit special applications, the new Load-Mobile electric lift truck manufactured by the Market Forge Co., Everett, Mass., is equipped with a narrow lifting platform. The width of the platform is only 18" and can be furnished in 6", 7", 9" and 11" lowered heights to engage conventional platforms. These trucks have been built as narrow as 15" to meet special conditions.



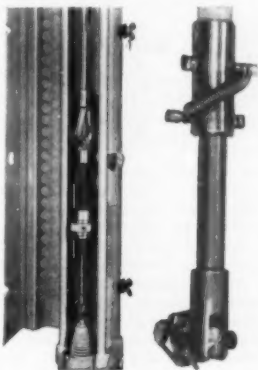
A set of stabilizing casters are placed on each side of this unit because of the tendency of such a narrow model to tilt in making sharp turns. These casters are spring-mounted and in normal operation completely clear the floor. They are called into action only when the unit tilts, whereupon heavy springs return it to normal position. The truck is battery-operated and features 3-way operating positions which provide safety, comfort and maneuverability. Large capacity cushion rubber wheels with sealed ball-bearings produce the minimum drain on the battery.

Punch Press Device

Three improvements have recently been made in the Possons Safety Device for punch press operators, assuring additional safety and ease of maintenance. The pull-back adjustment, which controls the location of the operator's hands, can now be made while standing on the floor. A single, convenient adjustment takes care of both hands. It consists of a knurled nut on a 10 in. screw, as shown in the illustration. Turning the nut will lower or raise the clip to the pull-back at the cor-

rect place. Due to a ball-seated arrangement, the nut will not slip or turn while in use.

After the adjustment has been made, the hinged, perforated, cable guard is closed. The guard may be locked if desired.



The second improvement is the new pins for adjusting the ram connection rod. These are solid pins, and are therefore more satisfactory than the former cotter pins. They are held securely in place by a 2 in. length of coil spring. To make sure that a job setter does not insert both pins from the same side of the rod (which would prevent use of the spring to hold the pins) the holes are capped on alternate sides.

The third improvement is an arrangement for hanging the hand straps on the face of the bolster plate when the operator leaves the press. Upon his return, he is automatically reminded to put on the straps. The hanger, made of spring steel, is so designed that if the press is tripped while the straps are attached to it, the straps will easily pull off, thereby protecting the cord and cable from breakage. Further details may be obtained from the Positive Safety Manufacturing Co., 4411 Perkins Ave., Cleveland 14, Ohio.

Hoist-Binder

Safety, convenience and simplicity of operation are stressed in the new Hoist-Binder announced by Cofing Hoist Co., 300 Walter St., Danville, Ill. Since this load binder works on the ratchet hoist principle, it will take up or slack off a load chain any amount up to a full 20½ inches, or more if a longer chain is used in the binder. According to the manu-

facturer, this advantage is especially important with "springy" loads where the



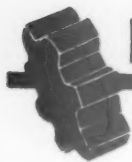
binder chain or cable must be tightened by force through considerable distance in order to fully secure the load. Also, if a load settles in transit, the new unit is easily tightened without the necessity of releasing the entire load to take a new grab. Full strokes can be used for rapid takeup; half strokes permit minute adjustments. To further speed operation, the binder chain may be pulled freely through the ratchet when not under load.

Another feature claimed for the ratchet and pawl construction is operating simplicity. Binding and slacking off is by means of the handle only, with no buttons or levers to push, no locking device to release. Also with this type of design, the handle will not fly up under load. The handle may be removed to prevent tampering with the load or the binder. When the handle is out, the load cannot be released. Another safety feature is that the handle bends before the binder can be overloaded beyond safe limits. The binder weighs only 10 pounds and will exert a pull of 3,000 pounds, according to the manufacturer.

Shock Absorbers for Safety Hats

To provide increased protection from side blows to hard boiled hat wearers' heads, E. D. Bullard Co., 275 Eighth St., San Francisco 3, Calif., is marketing sponge rubber "shock absorbers" that may be attached to hats already in use. The rubber pads are affixed to self-adhering strips and applied by pressing them firmly against the hat crown under the headband.

Advantages claimed for this method of attaching the pads, are that the individual head sizing feature of the safety hat is retained, and standard headband assemblies may be used, thus simplifying replacement problems. The pads are fur-



NEW SAFETY EQUIPMENT FOR INDUSTRY

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nished in complete sets for field installation on hats in use, or factory installed to order.

Bridge Ramp

Roll-Rite Corp., 801 Jefferson St., Oakland, 7, Cal., announces a new bridge ramp designed for easy positioning by a fork truck. A center-positioned lifting stirrup permits one-man handling, balanced control, easy placement. In position, the full range locking device on the ramp prevents "creep." Fork lift tires grip the



rough plate surface grips, even in wet weather.

Beveled edges, rounded corners, side guards are additional improvements and conveniences that provide easy access, guide wheels and protect loads from danger of falling off ramp sides. The ramp reinforced with truss and bottom braces supports loads up to 15,000 pounds.

Sound Level Meter

A new Type 410-B Sound Level Meter used for accurately measuring noise, sound, and vibration is announced by Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass. The rugged, compact, and accurate instrument is made possible by use of subminiature tubes and components, together with patents-pending mini-



aturization techniques. The meter meets all specifications of the American Standards Association for sound level meters.

This new model features greater low-frequency range, electrical circuit improvements, and mechanical design refinements.

The sound-level range is from 34 to 140 db above the standard ASA reference level of 0.0002 dynes per square centimeter. Readily obtained hearing-aid batteries have an operating life of about 50 hours. Meter is available with a wide range of optional accessories, including carrying case, extension cables and vibration measuring equipment.

Spotlight

A new outdoor spotlight providing 100,000 candlepower with only a 300-watt rating has just been announced by Stonco Electric Products Co., 489 Henry St., Elizabeth 4, N. J. The new unit is designed to concentrate its entire light output in a long-throw, oval-shaped, narrow flood-lighting beam that is recommended for area protection lighting of such vulnerable spots as railway sidings, switch and loading areas, shipyards, docks, air terminals and other industrial properties.

Made of non-corrosive, heavy-duty cast aluminum throughout, the Stonco No. 56 spotlight has a universally adjustable cast-aluminum swivel arm threaded $\frac{1}{2}$ " NPT to fit a variety of standard interchangeable



accessories such as flat base, weatherproof junction boxes, wall brackets, wiring troughs, etc. Up to five units can be mounted to a single cluster light assembly so that in anti-sabotage lighting in particular, all lights in a cluster would have to go out before total darkness is possible. All wiring is completely enclosed and the units approved by Underwriters' Laboratories, Inc.

In addition to protective lighting, the unit is recommended for general commercial application in supplementary lighting of gasoline service stations, parking areas, and other localized floodlighting applications.

Plastic Lens

A new 6-curve plano plastic lens for industrial safety goggles is announced by Wilson Products, Inc., Reading, Pa.

Known as Plas-Tough, the new lens is made of a newly developed plastic with an improved surface hardness that has unusual resistance to scratches, abrasions

and common industrial acids. One of its features is exceptional light weight, about half that of comparable glass lenses. The lens has been found to be the equal of heat-toughened glass in such important qualities as impact resistance and visible light transmission. On jobs where lens pitting is a factor, this lens will give many times the services of glass, and is also superior to cellulose acetate in this respect. These lenses are available in the popular drop-oval (P3) shape, in 44 and 47 mm. sizes, as well as 50 mm. round.

Fabricated Containers

The safe handling, storing, and transporting of corrosive liquids and solids is now achieved through the new type of Agilene bottles, jars, and safety jugs fabricated from polyethylene, a thermoplastic material, which in addition to its light weight (specific gravity is 0.92), has the property of chemical inertness to most acids and alkalis. It has the further advantage of being shockproof and non-brittle.

Agilene can be welded by the hot gas welding process, which is extensively used in the manufacture of these containers. All containers are individually tested with air-pressure to guarantee a leak-proof container.

These bottles are available in standard sizes from a quart to five gallons. Storage jars are available in capacities from one quart to five gallons. Agilene safety jugs are of rigid construction and light in weight. The closed top of the jug, with the minor exception of a small air-vent, prevents splashing or spillage. Any escape of liquid is confined to the spout and is restricted by the limited number of outlets from the body of the jug into the spout.

Further information on these products is available from American Agile Corp., Plastic Division, 5806 Hough Ave., Cleveland 3, Ohio.

Se-Lectric Rope

South Eastern Cordage, NBC Bldg., Cleveland 14, Ohio, has developed a new manila rope known as Se-Lectric which resists electric shock. The rope "fights off water" and possesses non-conductivity factors which make it specifically suitable for use by linemen, maintenance and other workers who face electrical hazards. Added safety factors also make it practical for many other uses in home, farm, factory, marine and in construction, both indoors and outdoors.

The manufacturing process starts with the individual fibre and yarn which is treated and lubricated by a combination

NEW SAFETY EQUIPMENT FOR INDUSTRY



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of methods and materials evolved after years of research. The rope handles nicely with fewer whisks, kinks and hocks to hamper the worker. It remains flexible, and wears longer. Keeping moisture out retards decay. The manufacturer states the Se-Lectric process is not irritating to hands.

Fire Detector

Employing a new principle of fire detection described as "Rate Compensation," Fenwal, Inc., 59 Pleasant St., Ashland, Mass., has just marketed a new model functional design fire detector.

The unit is intended to give protection in such structures as schools, hotels, hospitals, office, public and mercantile buildings, warehouses, and ships. The fixture fits snugly against the ceiling and is mounted in a curved steel case. It can be installed



within new or existing alarm systems, or can be made to actuate an extinguishing system directly.

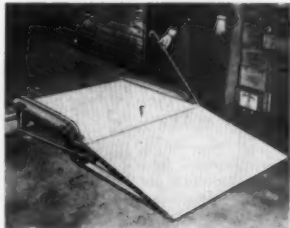
Called the Fenwal Detect-A-Fire, the unit gives an alarm precisely at the moment the surrounding air reaches the temperature for which the device is set. For example, if fire warning is desired at 140° F, the unit is pre-set at the factory for this point. The unit will then operate promptly. It is able to "sense" dangerous rises in temperature and to anticipate the point at which it should give the alarm.

The unit employs a stainless steel "sensing" tube which is always in direct contact with the air. Hermetically sealed within the tube are silver electrical contacts. Expansion of the tube with heating of the surrounding air brings the contacts directly together to sound an alarm or to operate extinguishing equipment. Units are available for either normally open or normally closed circuits. Temperature settings up to 325° F may be had. An area as large as 625 square feet can be protected by a single unit. The device carries the approval of the U. S. Coast Guard, and Factory Mutuals Laboratories, and is listed by Underwriters' Laboratories, Inc.

Lock Unit

Magline, Inc., Pinconning, Mich., manufacturers of magnesium-handling equipment, have introduced a new drop lock

for their line of dock board and ramp combinations. The new lock is incorporated into the ramp section of the unit



and automatically drops into place against the dock, securely holding the unit in position during loading operations. It provides positive lock action, and reduces any possibility of board slippage. The dock board and ramp combinations, complete with the new automatic drop lock, are especially designed units for use in overcoming extreme height differences between dock and car.

Jackstacker

A new addition to the Lewis-Shepard line of materials handling equipment is the "Jackstacker" especially made for handling tote bins, tightly sealed containers for bulk materials. The new machine is made in telescopic and non-telescopic models having a capacity for 4000 pound loads up to 48" long. The non-telescopic model has a fork elevation of 53" and the telescopic model has a fork elevation of 77" so that the bins can be easily double-decked in storage areas.



Lifting forks are constructed with an 11" opening to provide ample clearance on each side of the tote bin tilt racks. A special lifting arrangement enables the bins to be tilted on the tilt rack by the Jackstacker in addition to the usual functions associated with this type equipment. Front and rear wheels and stabilizing casters are rubber-tired to provide maximum floor protection. The machine has two speeds forward and reverse, electric lift and lowering, and the spring-set, elec-

trically released brake. All controls are in the handle head and can be operated with the handle in any position.

Drying Machines

The Chicago Hardware Foundry Co., 3501 Commonwealth Ave., North Chicago, Ill., announces the new Sani-Dri boot and shoe dryer. Drying is done quickly with a 125 cubic foot per minute air stream heated by a 13.5 amp. element with a 5300 BTU output. The boots are placed on the boot bracket over the metal tubes, drying is finished quickly by the heated air blowing into the boots. Protection to the machine is provided by a sensitive circuit breaker to protect the heating element from excessive overloading.

The new machine is a portable model with aluminum hammeroid finish that operates either on AC or DC current. A toggle switch, manually operated, controls the machine which comes equipped complete with drying tubes and adjustable boot bracket.



This company has also developed a faster drying hand and face dryer made possible with an improved heating element and nozzle which concentrates the air stream for a larger blower and motor than any other dryer. A new circuit-breaker prevents damage when a user places his hand on the air intake or nozzle. The circuit breaker shuts off the heating element but automatically makes contact again when hand is removed. A simplified timing device shuts the machine off automatically.

Detergent

A non-irritating soapless detergent, S.S. Spray, designed for emergency use in industrial first aid dispensaries, is announced by Gebauer Chemical Co., 9410 St. Catherine Ave., Cleveland 14, Ohio. Automatically dispensed, the spray is ready for immediate application for quick removal of oil and grease from injuries before the use of antiseptics or other medication. No time or water is needed to develop a lather. Ejection from the bottle eliminates waste, since the automatic level allows better control of the amount desired. It may also be used for the removal of ointment dressings and as a detergent for soap-sensitive skins.



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Floor Cleaner

"Emerel," a new floor cleaner and deodorizer, is announced by S. C. Johnson & Son, Inc., Racine, Wis.

Emerel is safe for all types of floors and can be used to clean washable walls and woodwork. It loosens dirt, grime and floor stains without scrubbing, yet contains no harsh chemicals, abrasives, free alkali, or harmful acids. Formulated as a concentrate, it is mixed in a ratio of 1 to 20 and may be used with either hot or cold water. Spread on the floor and gently agitated, it loosens films and stains quickly. It also deodorizes. The new product was especially formulated to eliminate the scrubbing formerly needed to clean terrazzo, marble, ceramic tile and vitreous tile found in corridors and lobbies. It may also be used to clean rubber and asphalt tile, linoleum and wood, new types of plastic flooring as well as other washable surfaces. Emerel is available in 1-gallon and 5-gallon cans and 55-gallon drums.

News Items

John A. Roebeling's Sons Co., Trenton, N. J. announce the following appointments:

John P. Kadlic as Philadelphia district sales manager for the wire rope division. Mr. Kadlic replaces Vincent L. Daulton, who lost his life in a recent train wreck. A native of Bellair, Ohio, Mr. Kadlic is a graduate of Princeton University. Prior to assuming his new duties, he was the company's sales representative in the St. Louis area.

James C. Barney has been appointed assistant manager of sales for the wire rope division of John A. Roebeling's Sons Co. His new headquarters are at the firm's home office in Trenton. He replaces the late George B. Stoess.

Mr. Barney has been associated with Roebeling for the past 26 years. From 1925 until 1943 he served as office manager, and was then assigned to the California oil fields as sales representative. In 1947 he was promoted to assistant manager of the Los

Angeles district office, while continuing to handle the oil field accounts. He served in this dual capacity until his recent appointment.

Frederick B. Hermann, assistant director of the Technical Development Department of The Diversey Corp., 1820 Roscoe St., Chicago, since shortly after the beginning of the year, has been named director, it has been announced by President L. Shere. Mr. Hermann succeeds R. J. Stell, recently named assistant to Diversey's general sales manager.



President Shere also announced the appointment of Donald V. Hannibal as



assistant director of the department. Mr. Hannibal previously headed analytical technical service and control for the chemical laboratory, a division of the Diversey Research Laboratories. He is a graduate of the University of Chicago in chemistry,

joined Diversey in 1947 as an engineer in the Technical Development Department.

T. G. Meulenberg, president of Automotive Rubber Co., Inc. of Detroit, announces the appointment of R. A. Lees as new general plant manager with complete responsibility for operation of the company's new rubber mill and all processing departments. Mr. Lees brings with him an extensive background in the rubber business. For 22 years he has been closely identified with the Ande process of rubber dipping. Born in Ohio, he received his degree from Oberlin College where he was later appointed to a teaching fellowship. His first connection with the rubber industry was as a research chemist in Akron. He served as special consultant to the Rubber Bureau of WPB during the war and more recently to the Rubber Division of NPA.



Health Council Meets Plans More Active Program

More cooperative thinking between the medical sciences and other fields—particularly engineering and education—is vital to the conservation of human resources, Dr. Detlev W. Bronk, president, Johns Hopkins University, told those in attendance at the 31st Annual Meeting of the National Health Council in New York City, recently.

Chief speaker at a dinner session of Council member agency delegates and their guests, Dr. Bronk, who is also president of the National Academy of Sciences, said:

"The very fact that medical discoveries make possible new cures for diseases, new ways of preventing disease, new surgical and diagnostic procedures, raises new economic problems which must be solved if these great medical discoveries are not to be tarnished by our inability to solve the social-economic problems which are thus created.

"The mere conservation of physical resources is not enough to satisfy men and women. . . . Curiosity and intellectual ability are among the most valuable assets of our national resources."

Fear of the future, fear of the uses to which our mounting knowledge might be put, he warned, is sapping the confidence and courage of the American people.

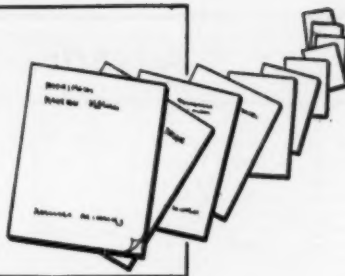
Civil defense plans of various government agencies and voluntary and professional organizations were discussed at a symposium on "Mobilization for Health Security—A Challenge to the Voluntary Health Agencies."

At a business session, the joint planning and action which constitute the Council's program was discussed. Closer relations with other agencies and coordinating bodies in fields akin to health, it was agreed are essential.

TRADE PUBLICATIONS

in the Safety Field

These trade publications will help you to keep up-to-the-minute on new products and developments in industrial health and safety equipment. They are free and will be sent by manufacturers without obligation to readers of NATIONAL SAFETY NEWS who are responsible for this work. Send in the coupon below checked for the publications you desire. Please make your requests promptly.



1. **Standard Signs:** Folder illustrating line of standard utility and industrial metal safety, caution, and directional signs. Also warning flags. Eastern Metal of Elmira, Inc.

2. **Air Grinder:** Folder describing the new hand air grinder which incorporates an overspeed safety coupling, designed to protect the operator and those about him by keeping wheel speeds within safe operating limits, regardless of the motor speed. Ingersoll-Rand.

3. **"Plastic Rock":** New 8-page brochure on plastic rock flooring. Contains a combination of information on how and where to apply plastic rock flooring as well as certain data about the product itself. Typical flooring applications are illustrated, showing how new life can be given old floors. United Laboratories, Inc.

4. **Safety Shoes:** Catalog illustrating various types of safety shoes for workers in industry. Features anchor flange steel box toe providing dependable protection. Also shoes built to meet the needs of workers in mines, quarries, oil fields, and for protection against explosive gas fume hazards. International Shoe Company.

5. **"Plibrico Incinerators":** New 16-page catalog covering the complete Plibrico rubbish incinerator line, erected in four standard sizes rated at 500 to 3500 lbs. per hr.; also portable incinerator which comes in four sizes. Also described are special incinerators for garbage and cafeteria refuse, biological and pathological material, wood refuse and special applications. Plibrico Jointless Firebrick Co.

6. **"Facts About Floor Safety":** A 20-page booklet describes in detail the recommended finishing techniques and routine maintenance methods for asphalt and rubber tile, linoleum, wood, concrete and terrazzo flooring. A special section lists the danger points important from a safety angle in the maintaining of various types

of floors. Also many practical floor care hints about cleaning, polishing, touching-up and refinishing as a guide to safe floor surfaces. S. C. Johnson & Son, Inc.

7. **"Sani-Dri":** Brochure on the new Sani-Dri high speed electric hand and hair dryers. This drying service is suitable for schools, office buildings, hospitals and industrial washrooms of all types. Comes in three models to accommodate these various facilities, with complete specifications. The Chicago Hardware Foundry Co.

8. **"Elasticone Guide Pin Covers":** A new technical data sheet, detailing sizes and material widths of Elasticone Guide Pin Covers, the spirally wound spring of flat steel that protects leader pins and bushings against nicks and scratches. This sheet, which has been designed as a handy file card, includes complete specifications and stock numbers of Elasticones. Central Safety Equipment Company.

9. **"Safety Signs":** Folder describing the Brady Self-Sticking Safety Signs. These signs come in a large variety of safety messages on standard color backgrounds. They stick to any clean dry surface without moistening and can be used on windows, doors, walls and machinery. W. H. Brady Company.

10. **"Monorock":** 4-page bulletin on special long-wearing cement floor finish adaptable to a broad range of commercial and industrial floor locations. Product includes a mixture of tough special aggregate which strengthens the concrete slab surface. Cast on dry, it penetrates, interlocks and becomes an integral part of the monolithic slab. General Floor Company.

11. **"Rockwood T-Head":** Brochure on the T-Head sprinkler for use in fixed piping systems. Head has a directional wide angle, medium velocity discharge and is installed in a pendant position. It is recommended for automatic as well as open deluge use

wherever sprinkler systems are used. Rockwood Sprinkler Co.

12. **"Automatic Coupler":** Folder on the new Ryd-In Automatic Coupler, designed to keep gang motor cars and trailers in true alignment in case of derailment. Also adaptable for spacing and interchangeable operations. Rydin Railway Equipment Co.

13. **"Micro Tips":** Periodic news sheet featuring production ideas. Full of practical ideas for making present switch equipment more automatic and for protecting equipment, products and personnel by use of Micro products. Micro Switch.

14. **Wire Glass:** Catalog No. 51 on the many uses of wire-glass for protection in windows, doors, transoms, skylights, fire escapes, partitions, exterior walls and other places where fire or breakage protection is required. Mississippi Glass Company.

15. **"How to Make Your Material Handling Pay Dividends":** Booklet on automatic electric trucks for use in lifting, stacking and moving heavy materials. Features a wide range of models suitable for all industrial needs. Automatic Electric Trucks.

16. **Anchor Fence:** Catalog featuring line of chain link fences designed for protecting plants and grounds against trespassers and troublemakers. Also for controlling traffic in and out of the plant, and safeguarding outdoor stocks. Anchor Post Products, Inc.

17. **"Sling Data Book":** Tells all about Flatweave slings and the rest of Roehling's line of slings and sling accessories for every hoisting, loading and moving operation. John A. Roehling's Sons Company.

18. **Loading Platform:** New catalog on the operation and maintenance of the Leva-Dock hinged-ramp for loading and unloading all types of trucks and trailers. Hydraulically operated, it adjusts itself to desired positions. Rotary Lift Company.

NATIONAL SAFETY NEWS

425 N. MICHIGAN AVE.
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Operating an unguarded press is an invitation to tragedy, suffering and expense.

JUNKIN automatic safety guards for presses are helping thousands of enthusiastic users set new safety records . . . higher production schedules. JUNKIN guards operate automatically from foot pedal, fall by gravity to bolster plate. Press can't operate until guard is in position.

Write for this New Bulletin

Junkin Safety Appliance Co., Inc.
930 W. Hill Street
Louisville, Kentucky

JUNKIN SAFETY GUARD



Check Your Needs on this ...

CESCO

SAFETY EQUIPMENT INDEX

APRONS

- ☐ Acitex
- ☐ Plastic

GOGGLES

- ☐ Acid
- ☐ Cases
- ☐ Chemical
- ☐ Chippers
- ☐ Coverlite
- ☐ Cup-type
- ☐ Dust
- ☐ Flash
- ☐ "Hat-n-Gogs"
- ☐ Headgear-Type
- ☐ Painters
- ☐ Plastic
- ☐ Prescription
- ☐ Spec-Lite
- ☐ Spectacle-Type
- ☐ Speed-Shift
- ☐ Spot Welders
- ☐ Welders
- ☐ Wide Vision
- ☐ Wire Screen

GUARDS

- ☐ Grinder
- ☐ Toe

HELMETS

- ☐ Air-Fed
- ☐ "Hat-n-Shield"
- ☐ Welders

HOODS

- ☐ Acid
- ☐ Air-Fed
- ☐ Babbiting
- ☐ Dust
- ☐ Paint Spray

LENSES

- ☐ Anti-Glare
- ☐ Bi-Color
- ☐ Blue, Aluminum
- ☐ Blue, Melters
- ☐ Cescoweld
- ☐ Clear Cover
- ☐ Essentialite
- ☐ Perma-Clear
- ☐ Pit-Proof Cover

- ☐ Re-Flecto-Ray
- ☐ Smoke-Green
- ☐ Super Safety

RESPIRATORS

- ☐ Air-Fed
- ☐ Dust
- ☐ Fume

SHIELDS

- ☐ Face
- ☐ Hand
- ☐ "Hat-n-Shield"
- ☐ Observation
- ☐ Spark
- ☐ Welders
- ☐ Wire Screen

SLEEVES

- ☐ Acitex

SPECTACLES

- ☐ Clip-On
- ☐ Comfort-Bridge
- ☐ Plastic
- ☐ Side-Shield Type
- ☐ Smelters
- ☐ Welders

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5115 Diversey

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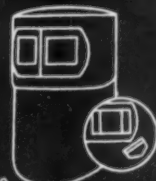
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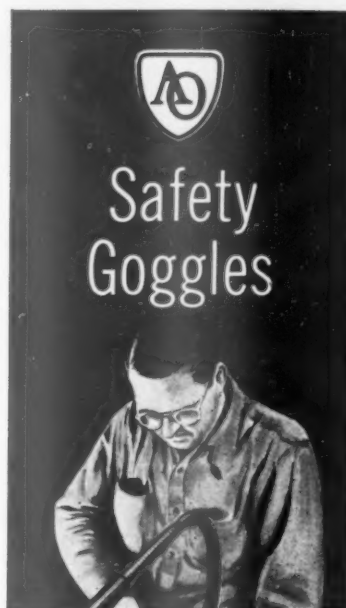
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Goggles

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